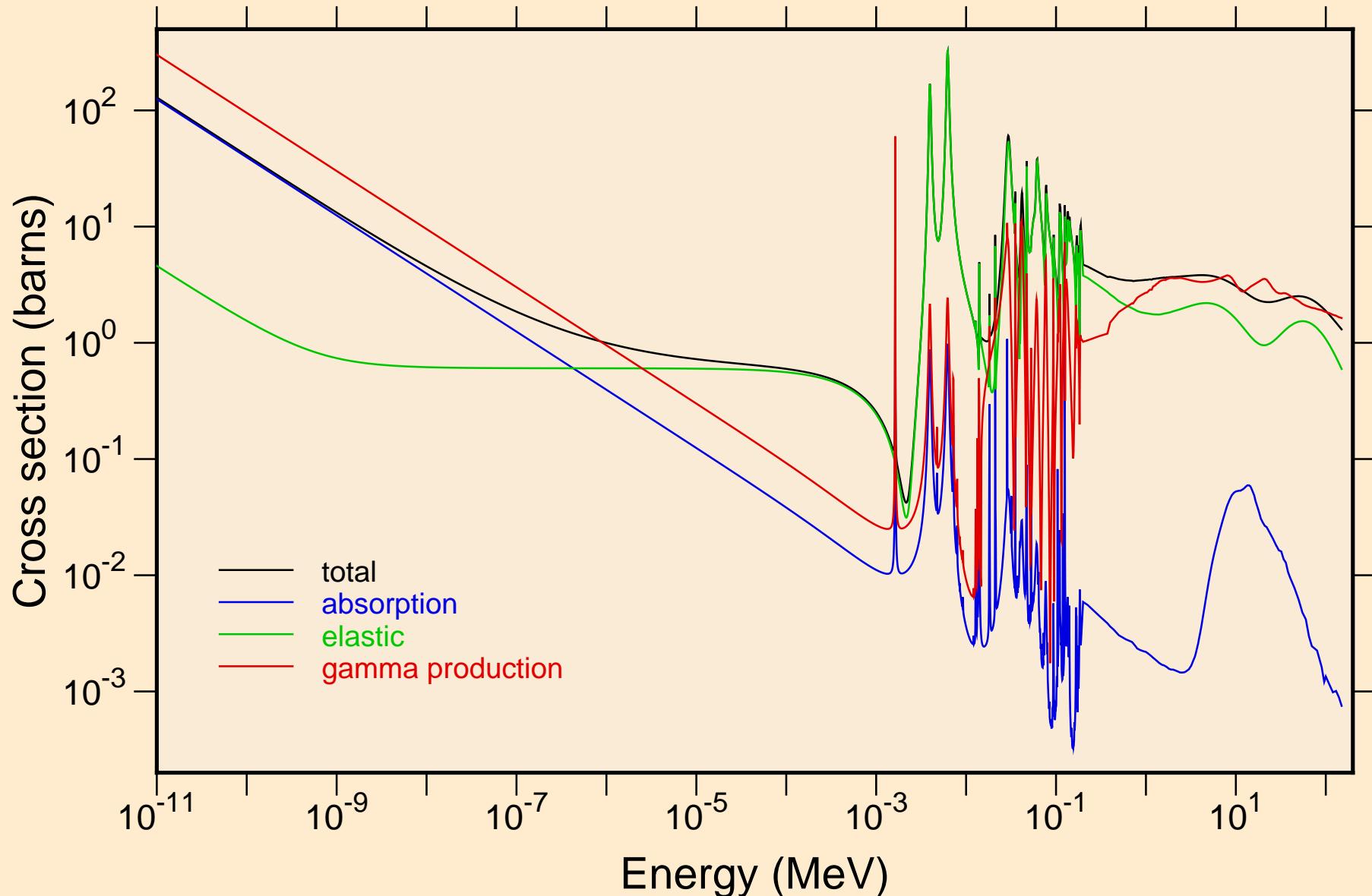


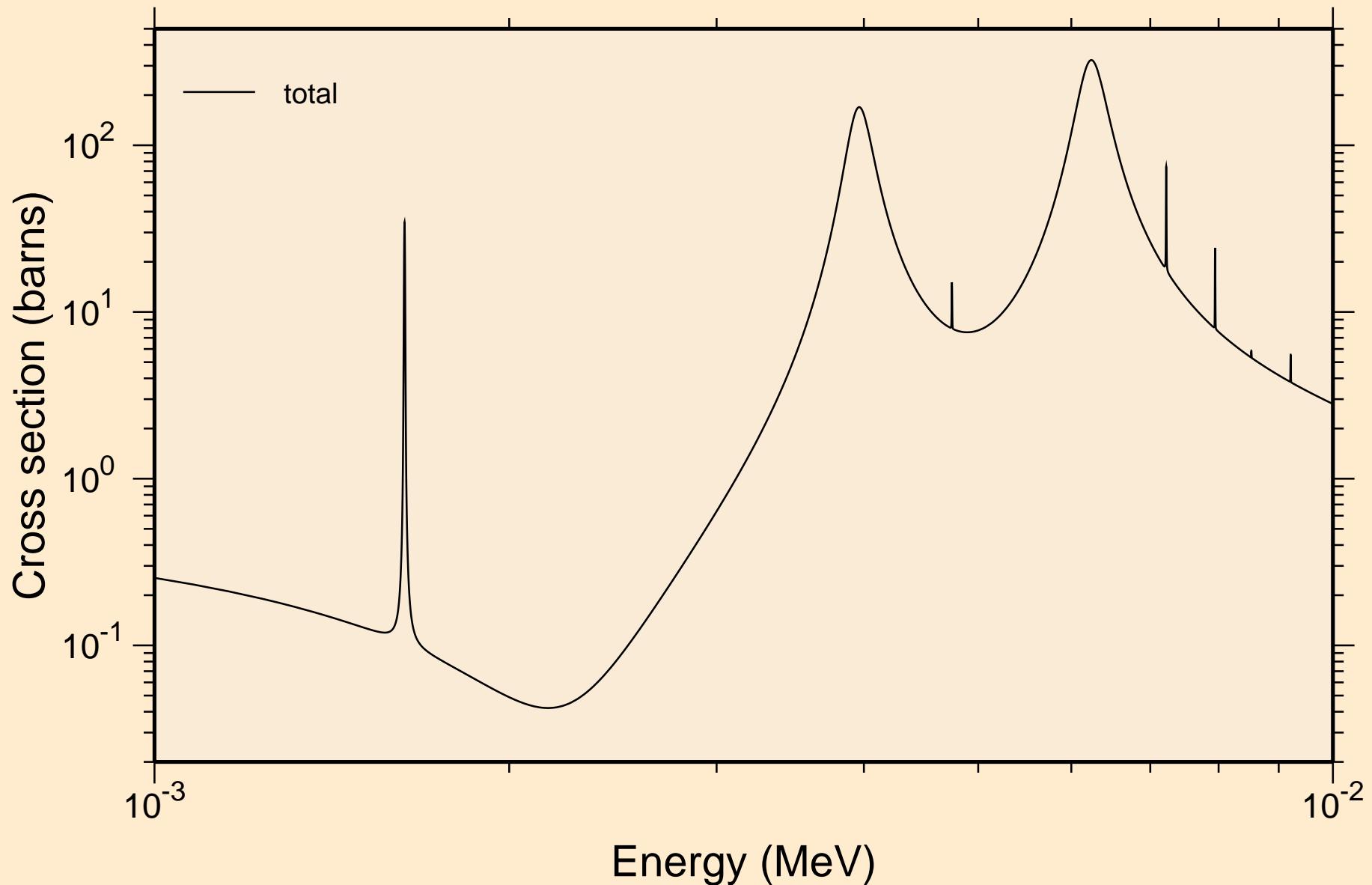
# ADVANCE CALCULATIONS

## Principal cross sections



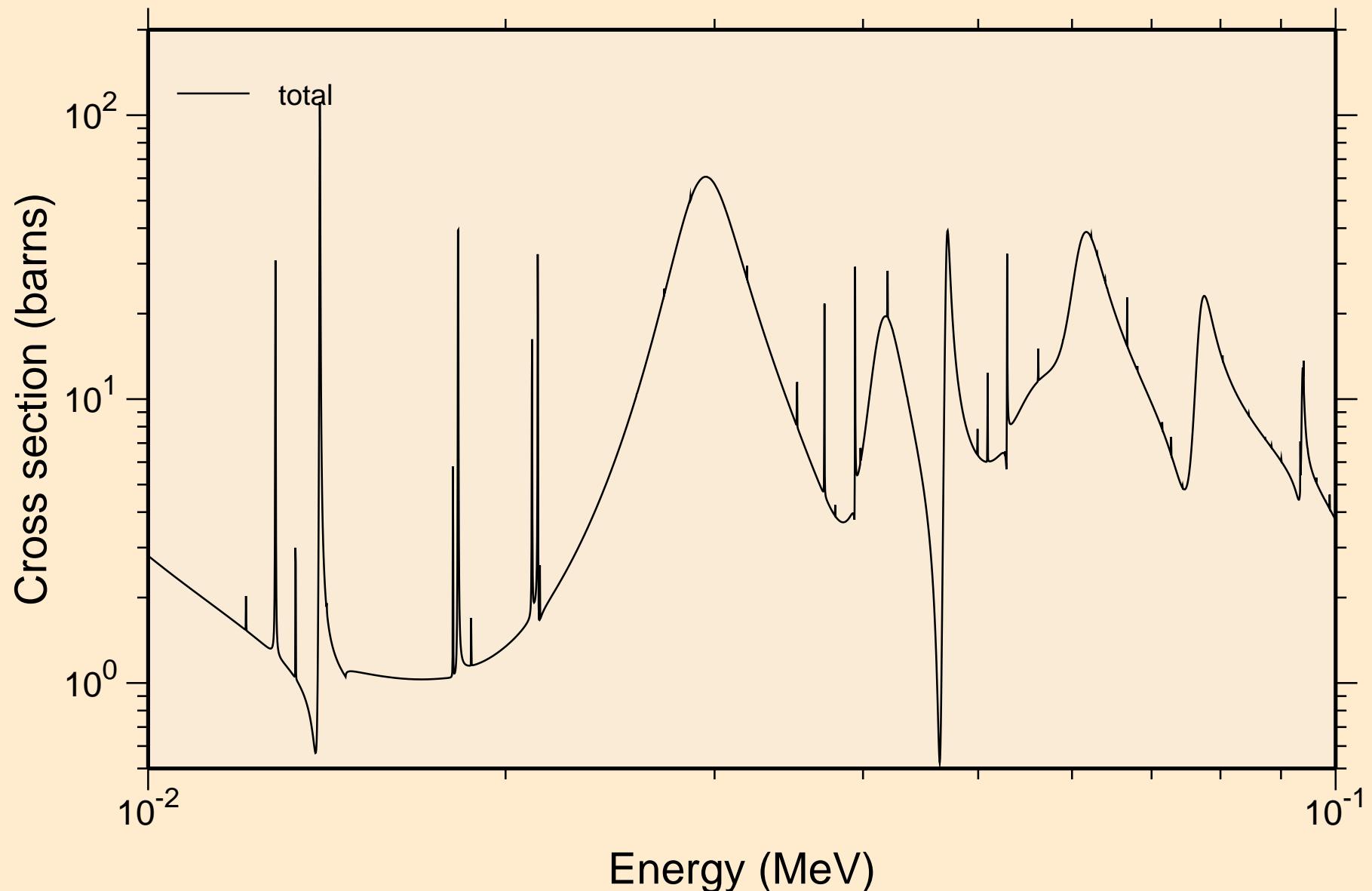
# ADVANCE CALCULATIONS

## resonance total cross section



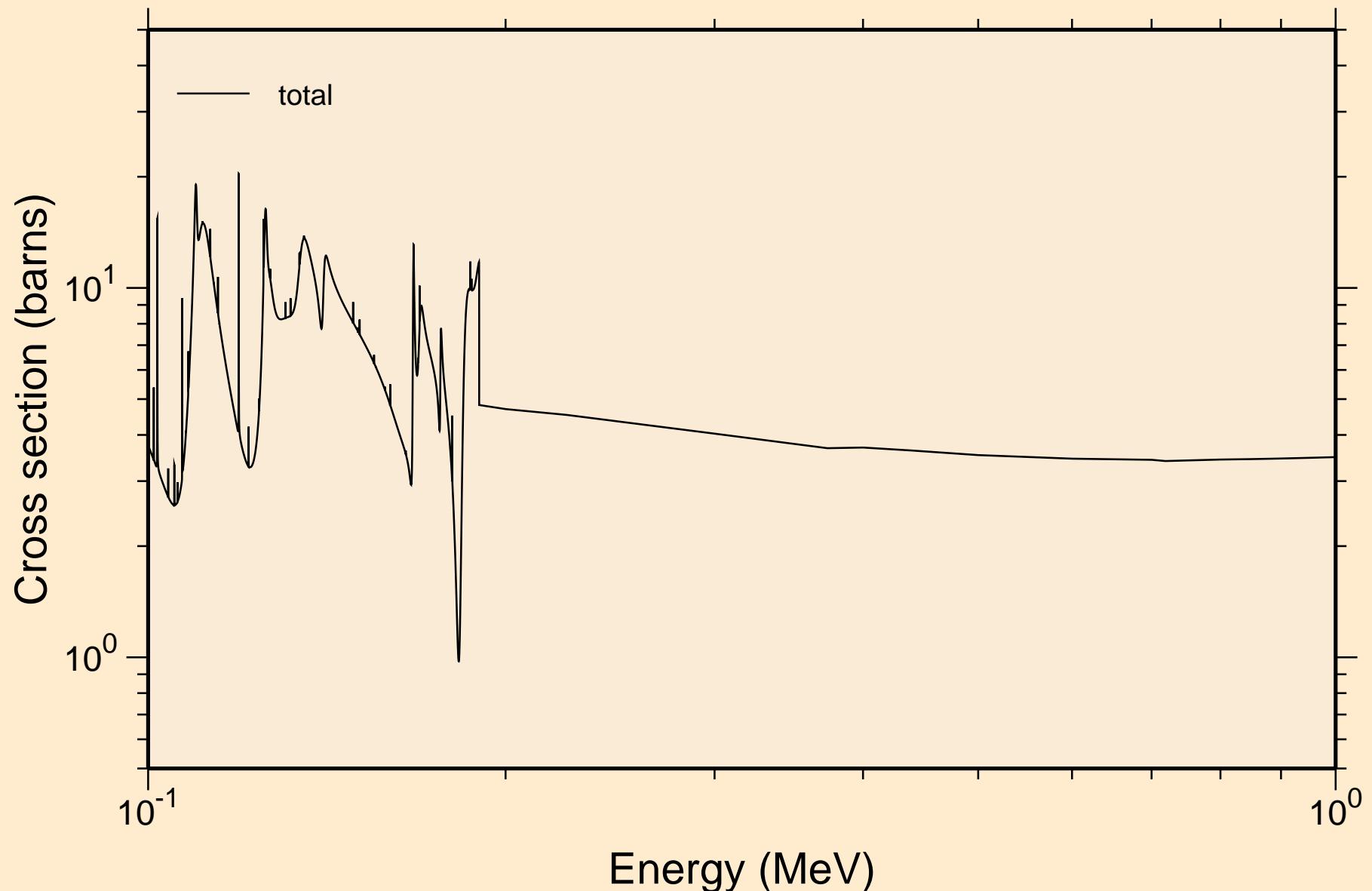
# ADVANCE CALCULATIONS

## resonance total cross section



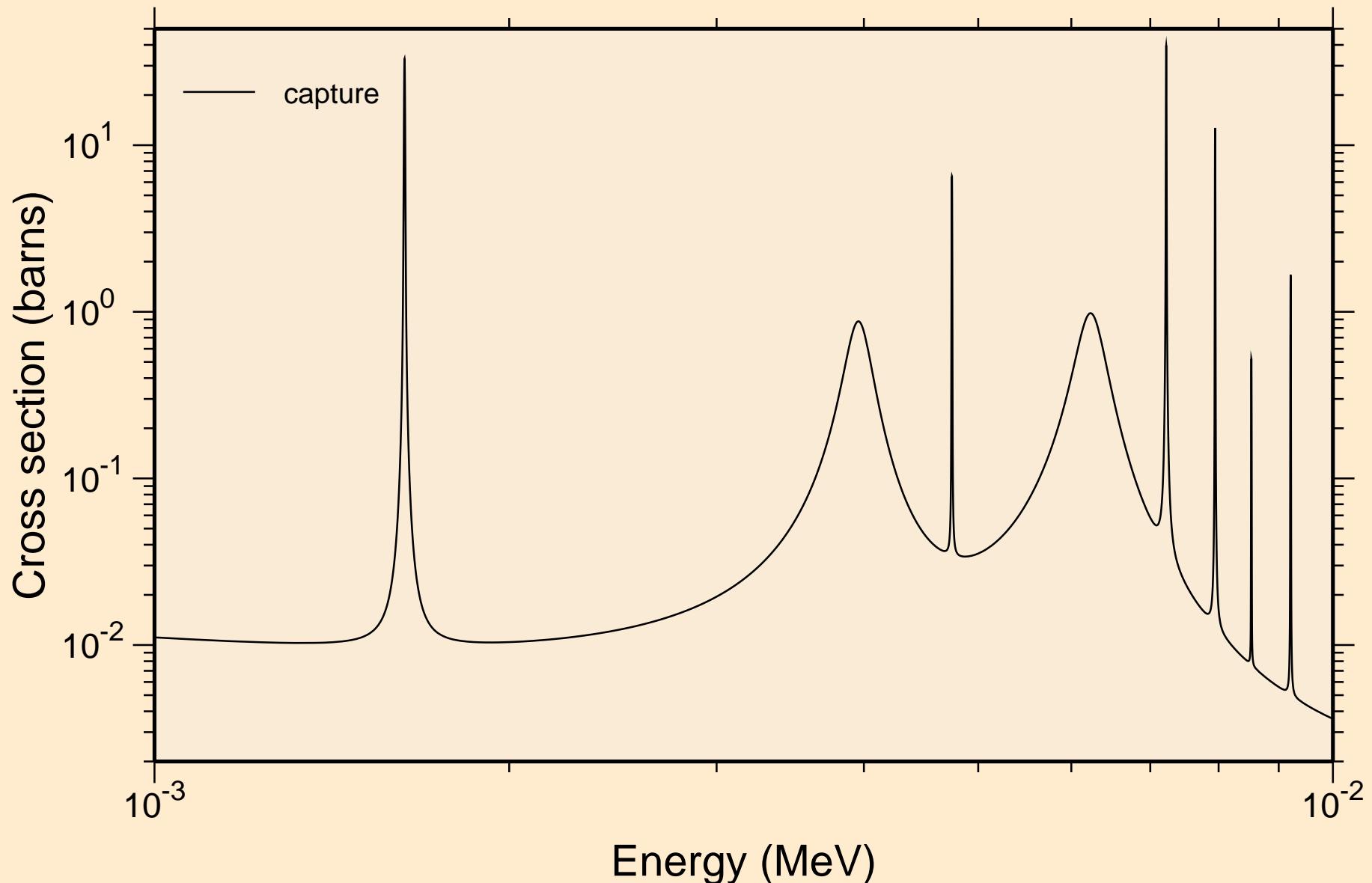
# ADVANCE CALCULATIONS

## resonance total cross section



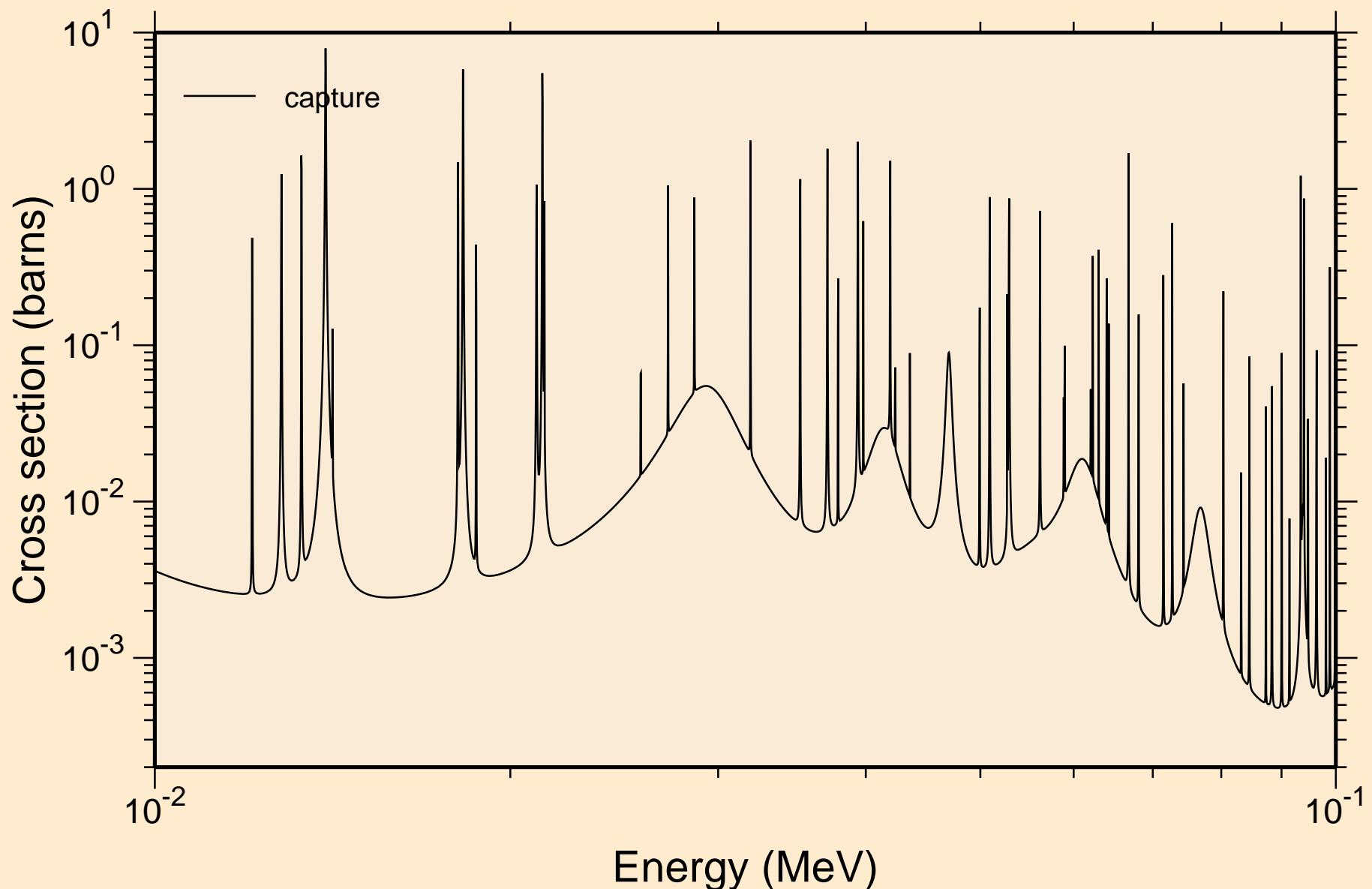
# ADVANCE CALCULATIONS

## resonance absorption cross sections



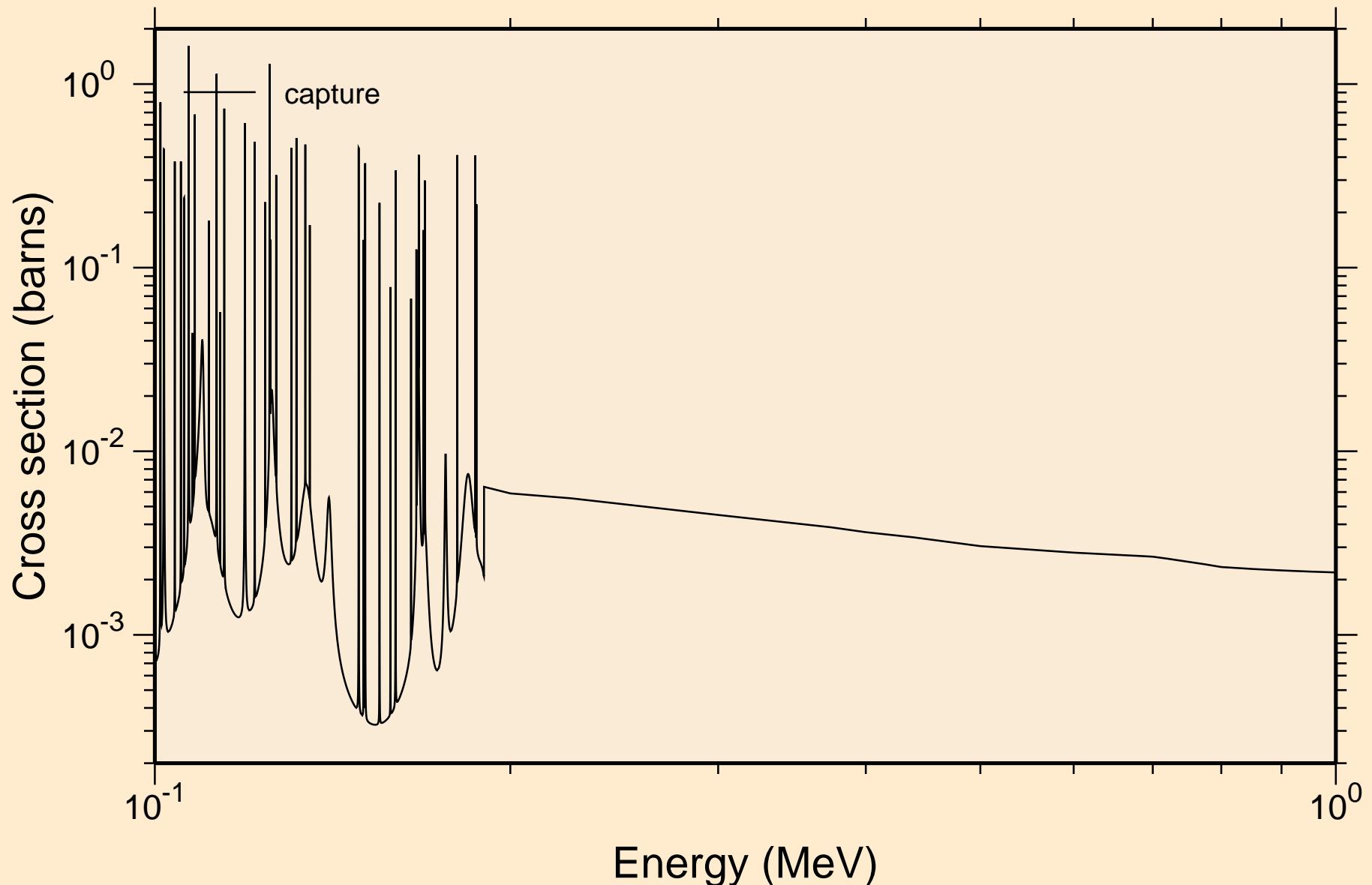
# ADVANCE CALCULATIONS

## resonance absorption cross sections



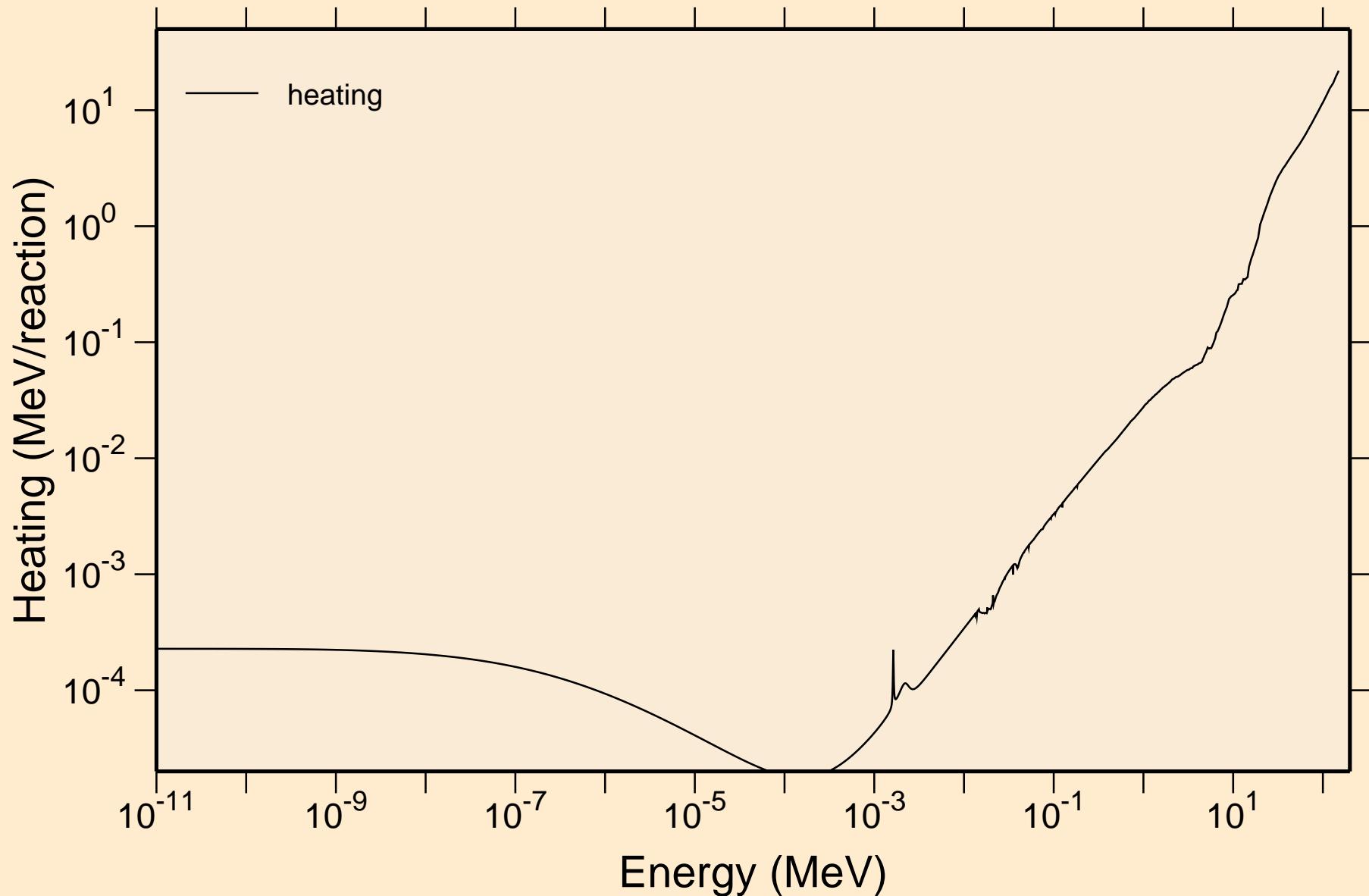
# ADVANCE CALCULATIONS

## resonance absorption cross sections



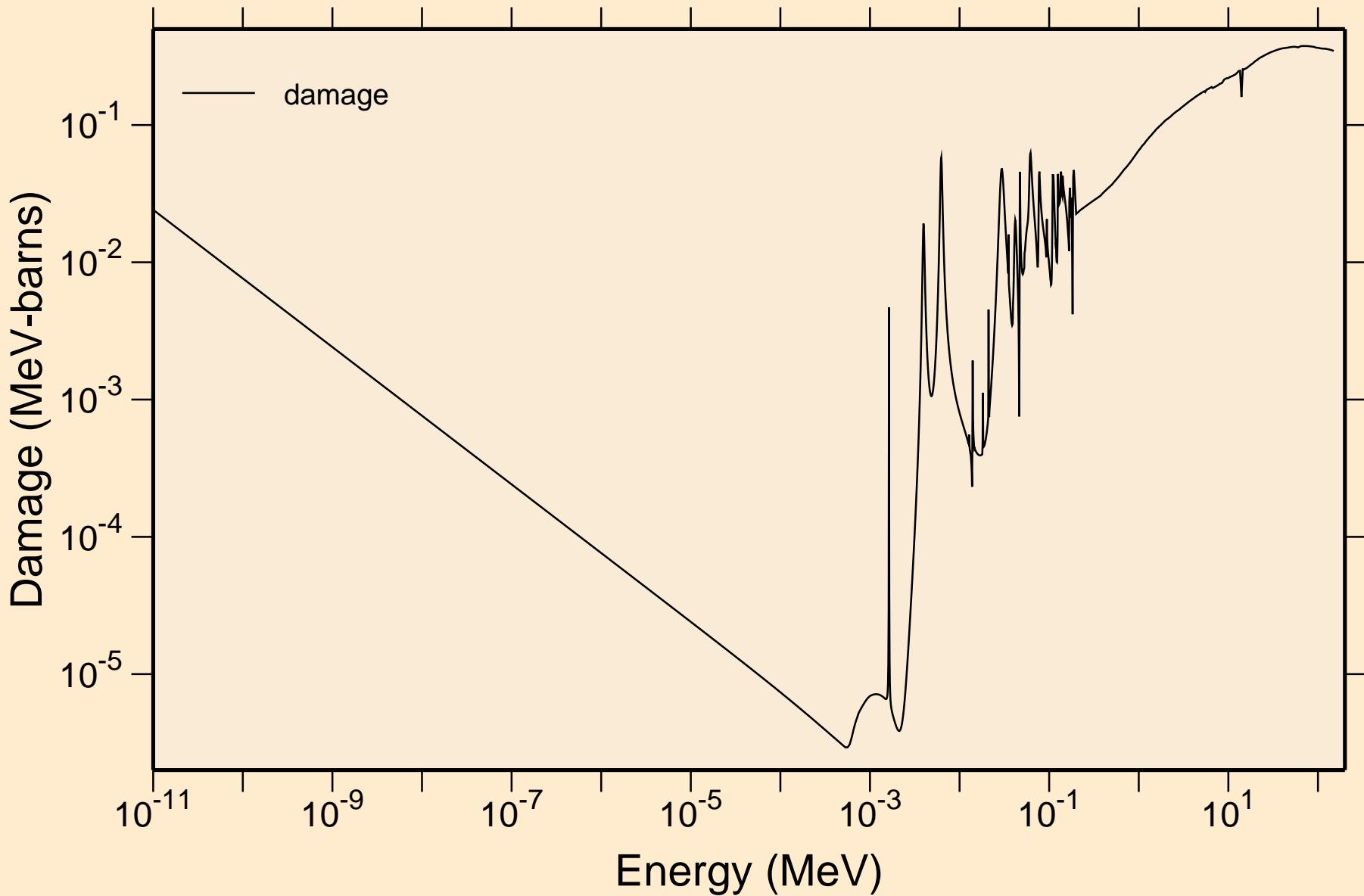
# ADVANCE CALCULATIONS

## Heating



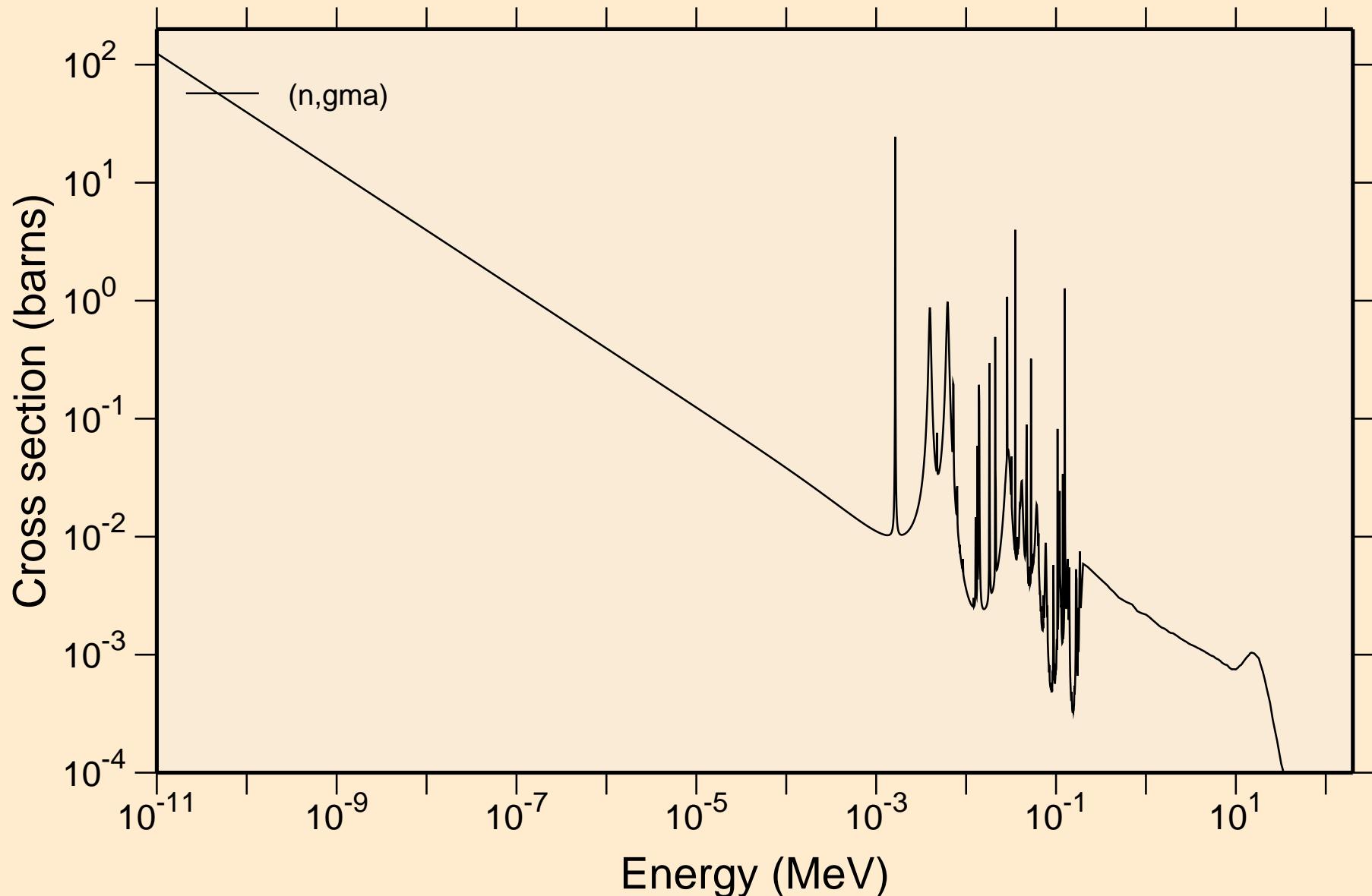
# ADVANCE CALCULATIONS

## Damage



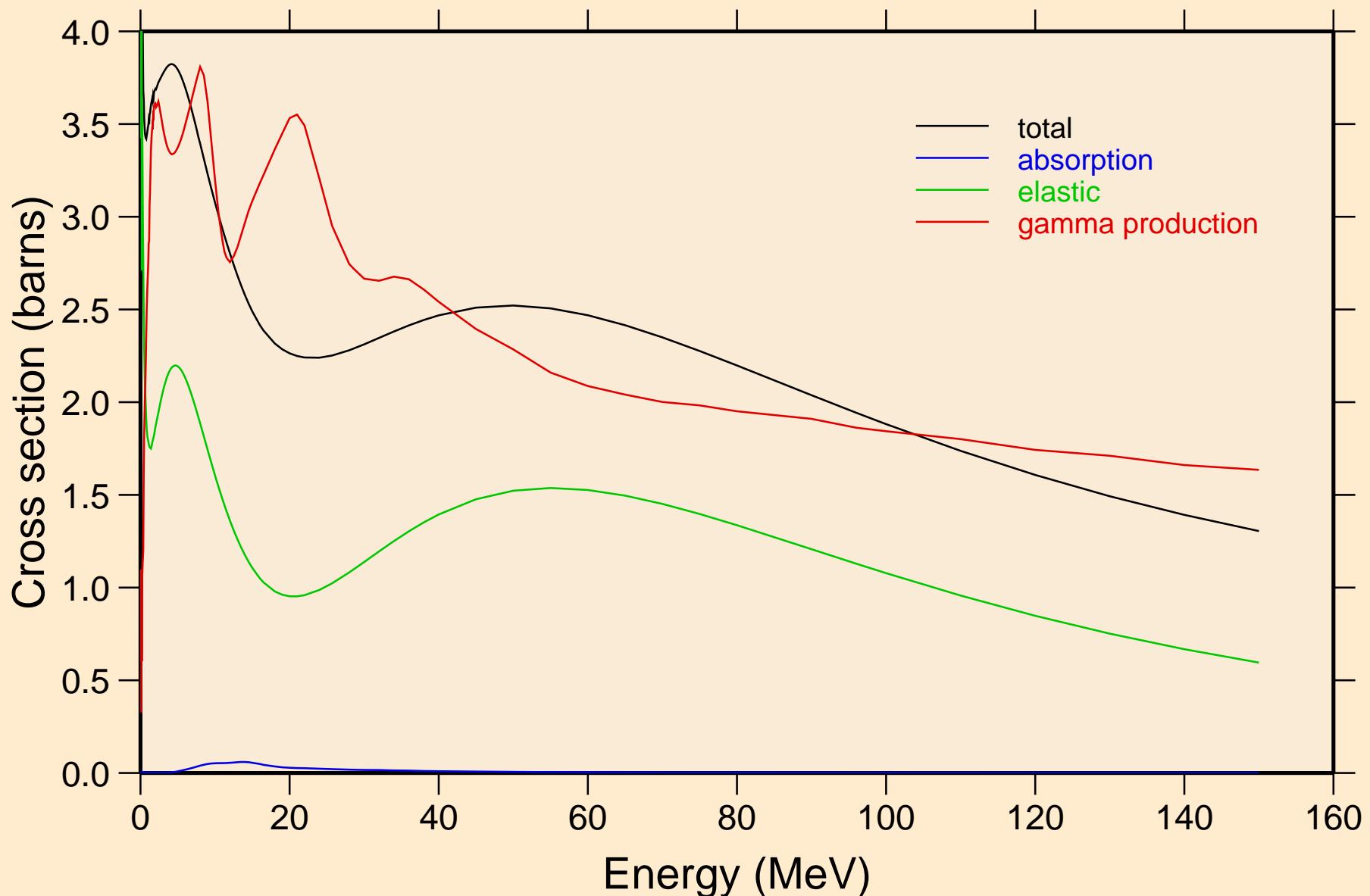
# ADVANCE CALCULATIONS

## Non-threshold reactions



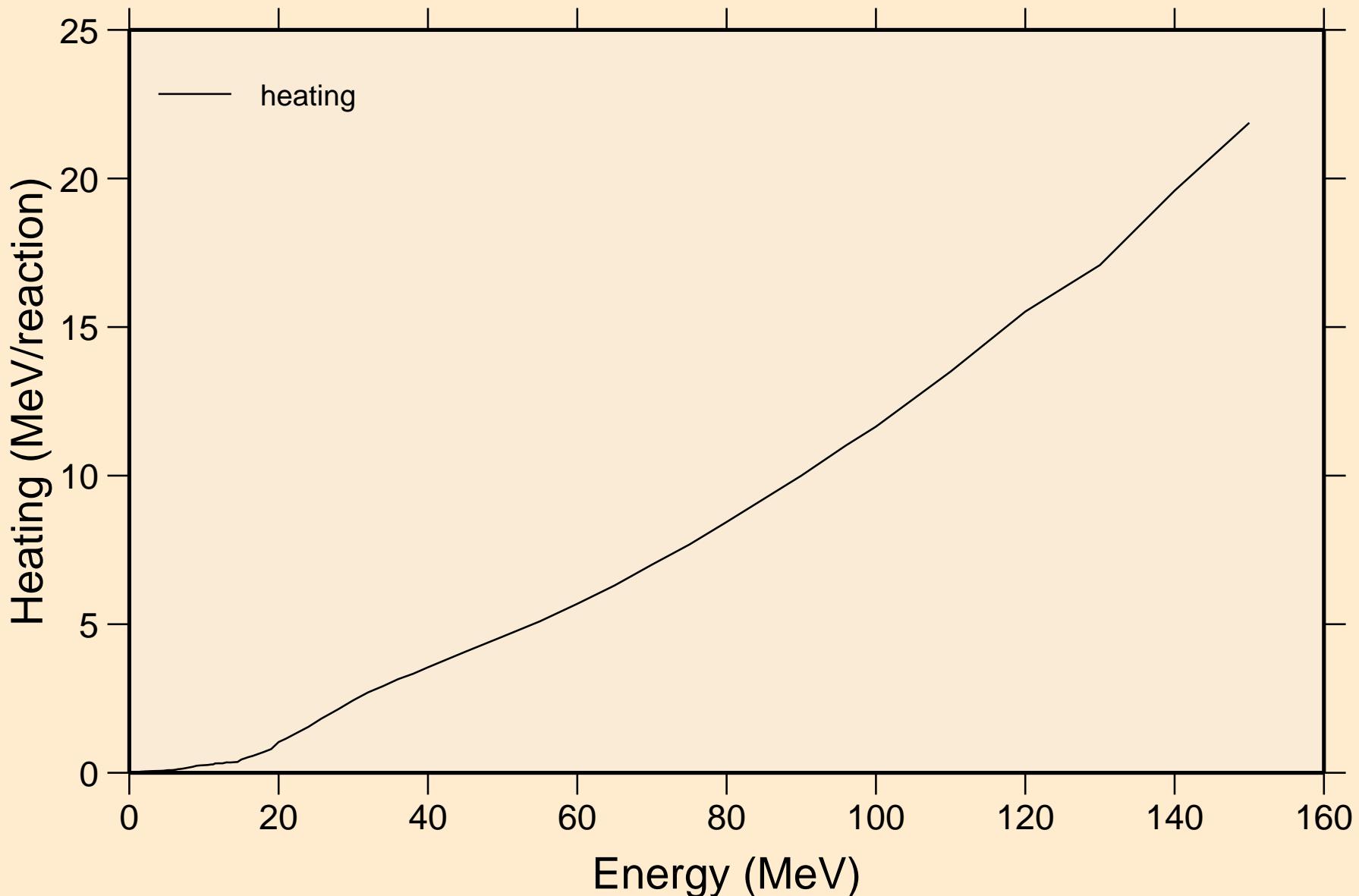
# ADVANCE CALCULATIONS

## Principal cross sections



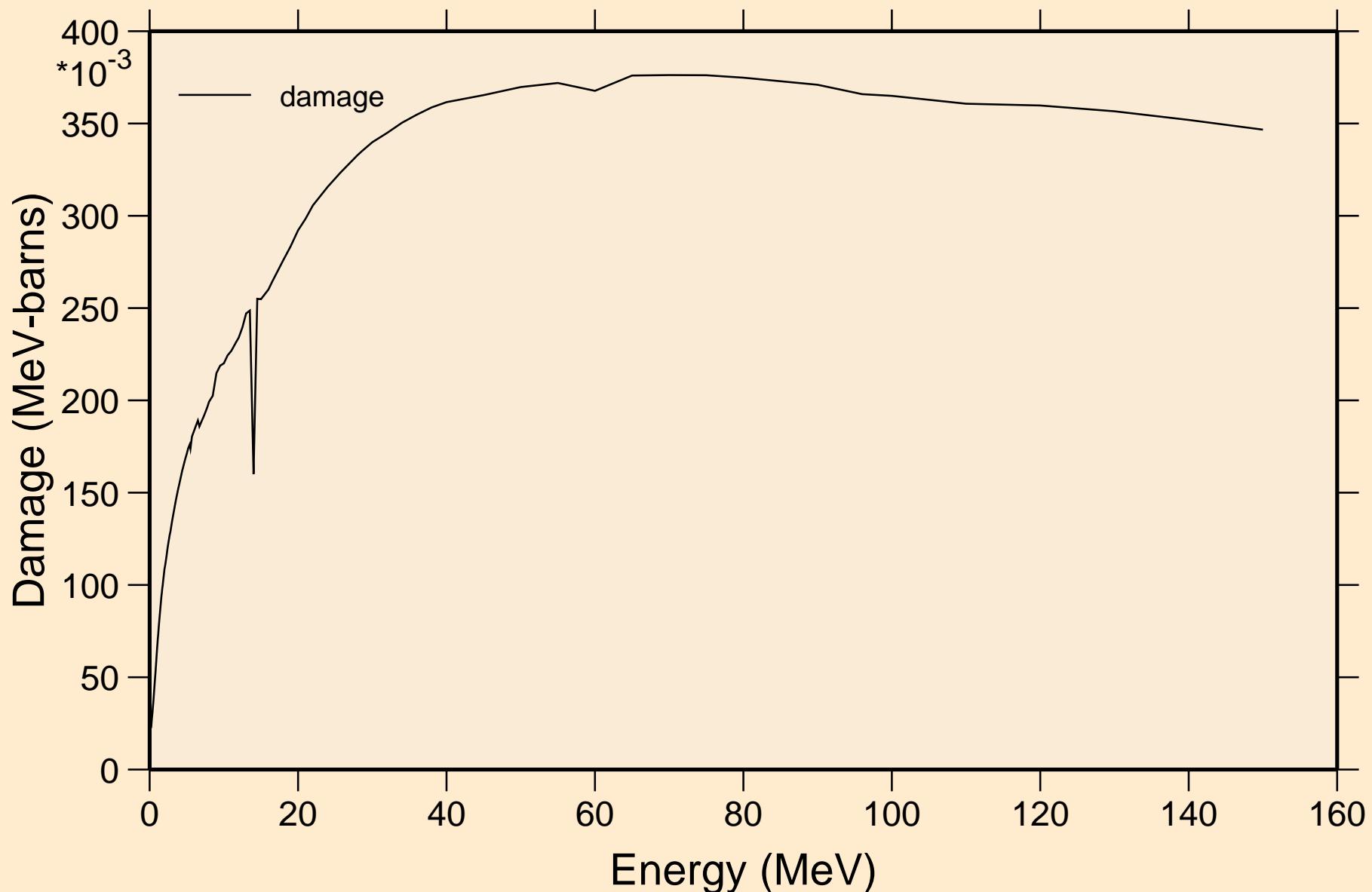
# ADVANCE CALCULATIONS

## Heating



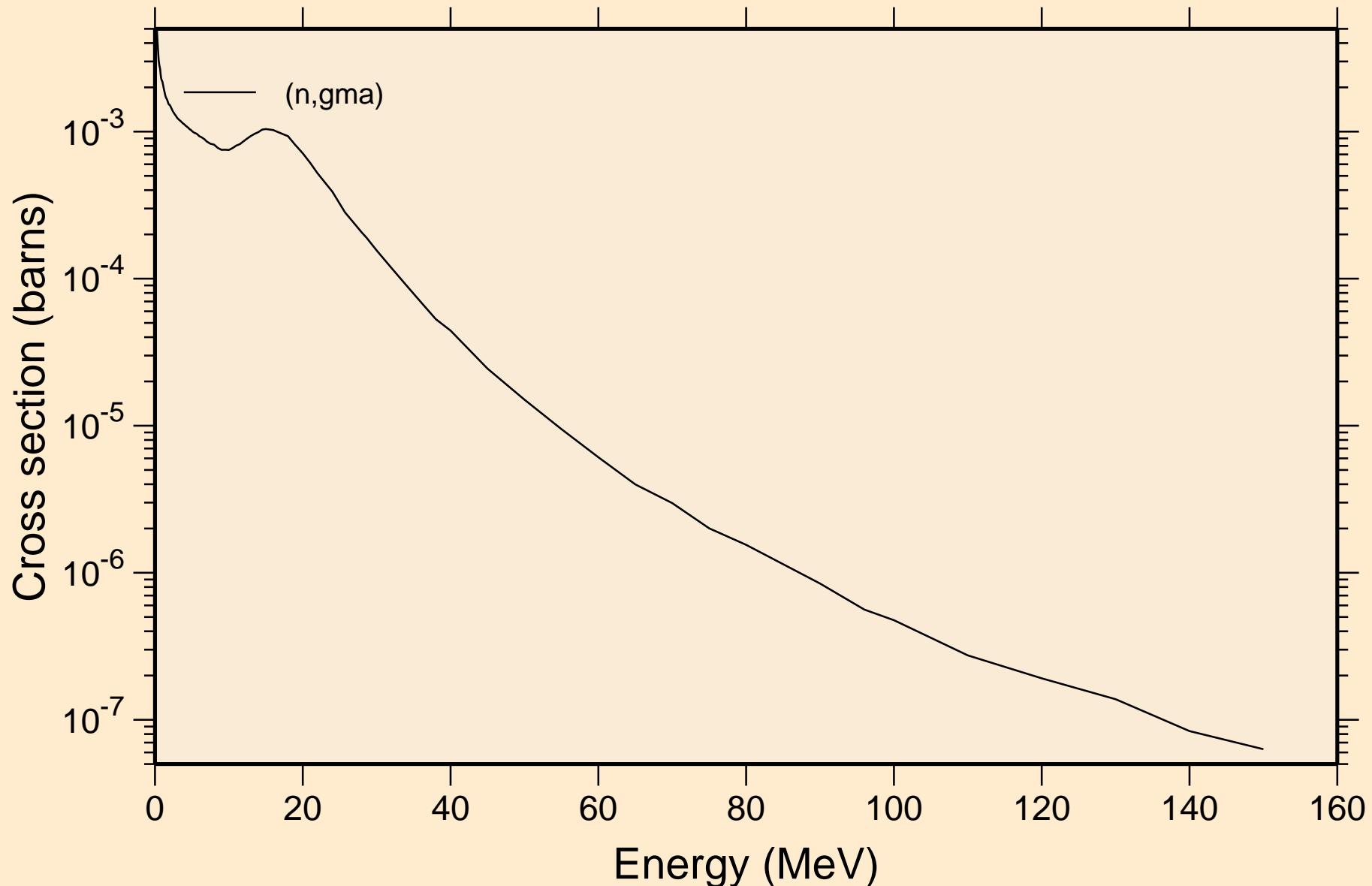
# ADVANCE CALCULATIONS

## Damage



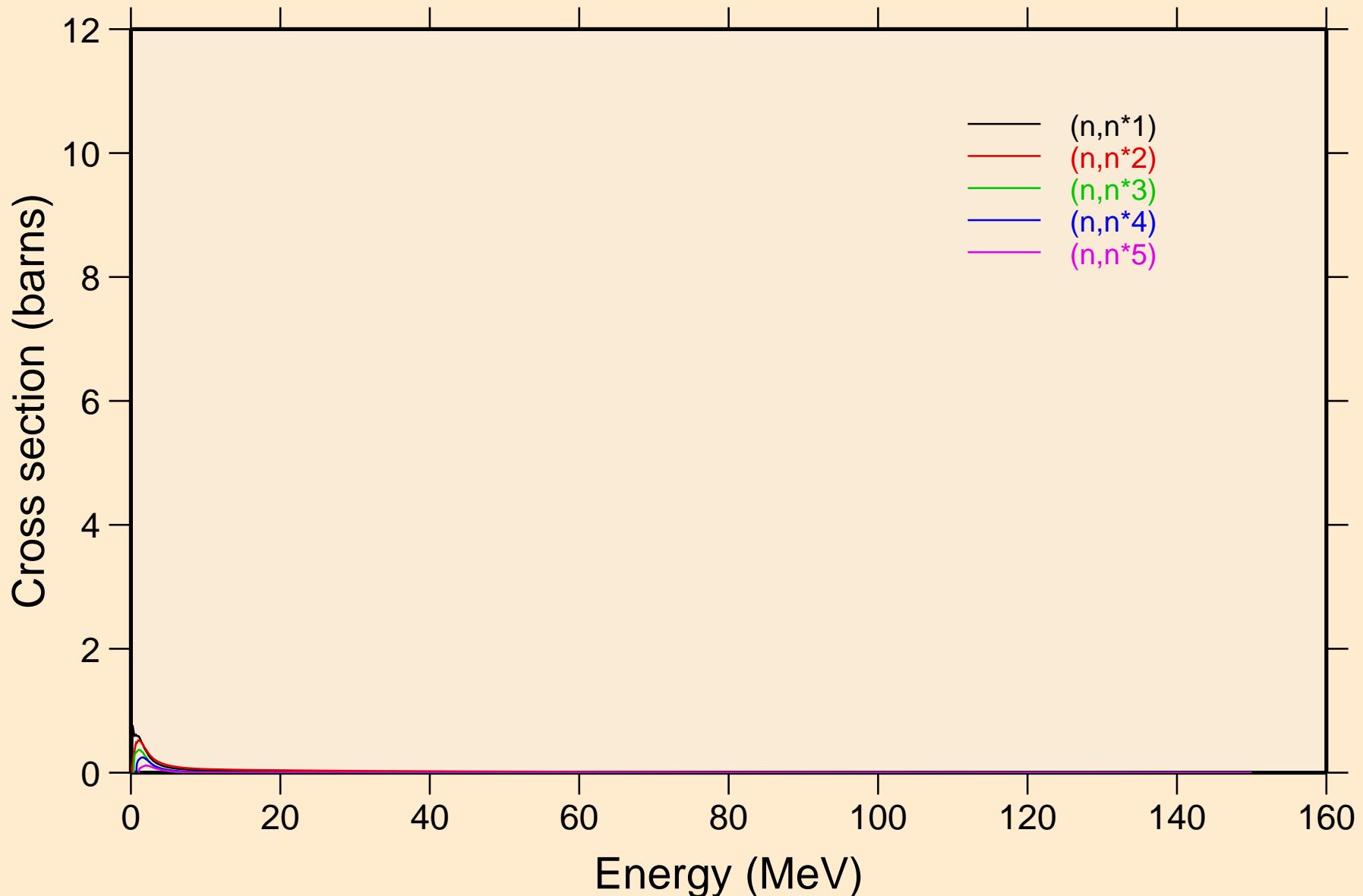
# ADVANCE CALCULATIONS

## Non-threshold reactions



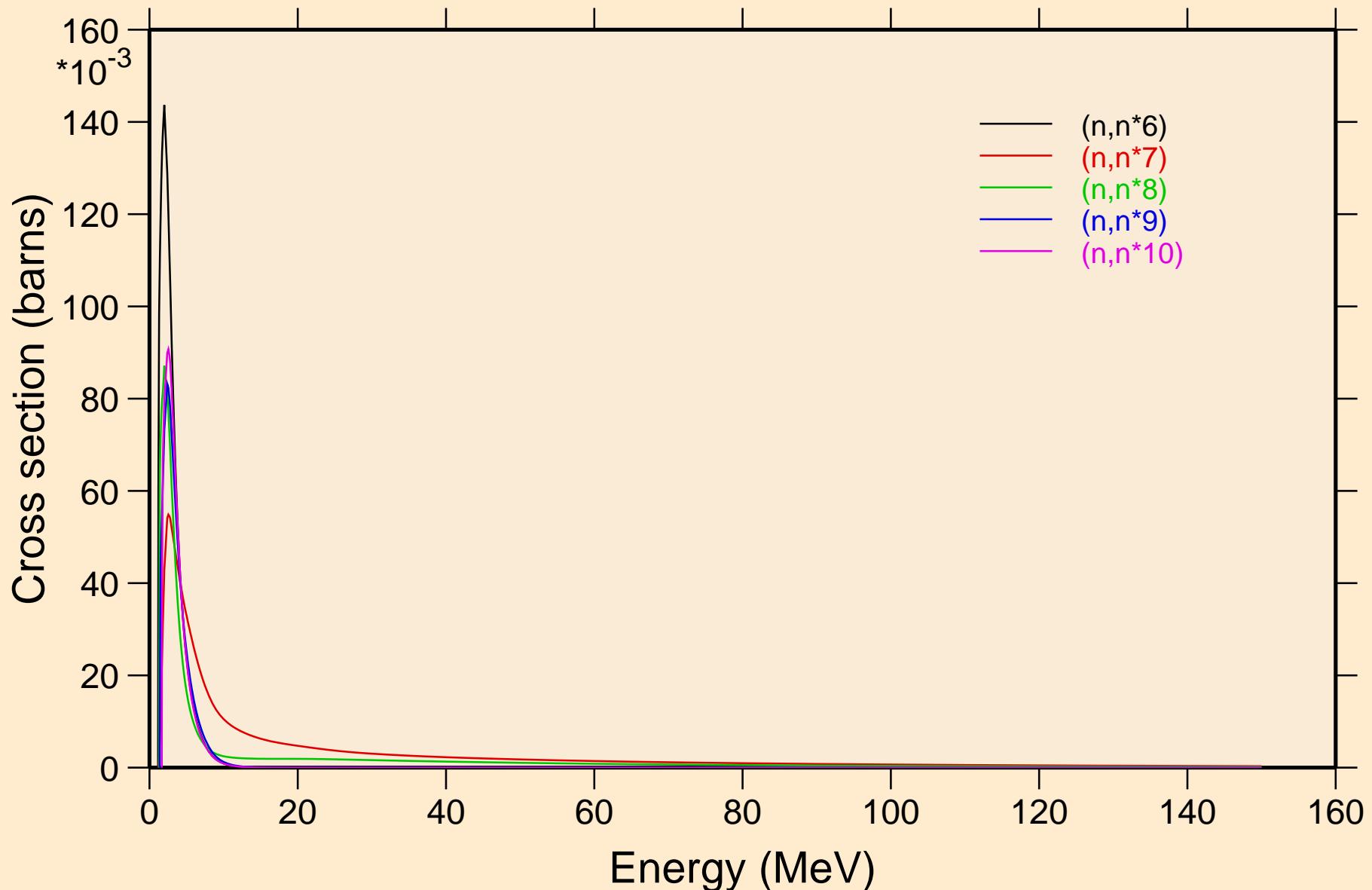
# ADVANCE CALCULATIONS

## Inelastic levels



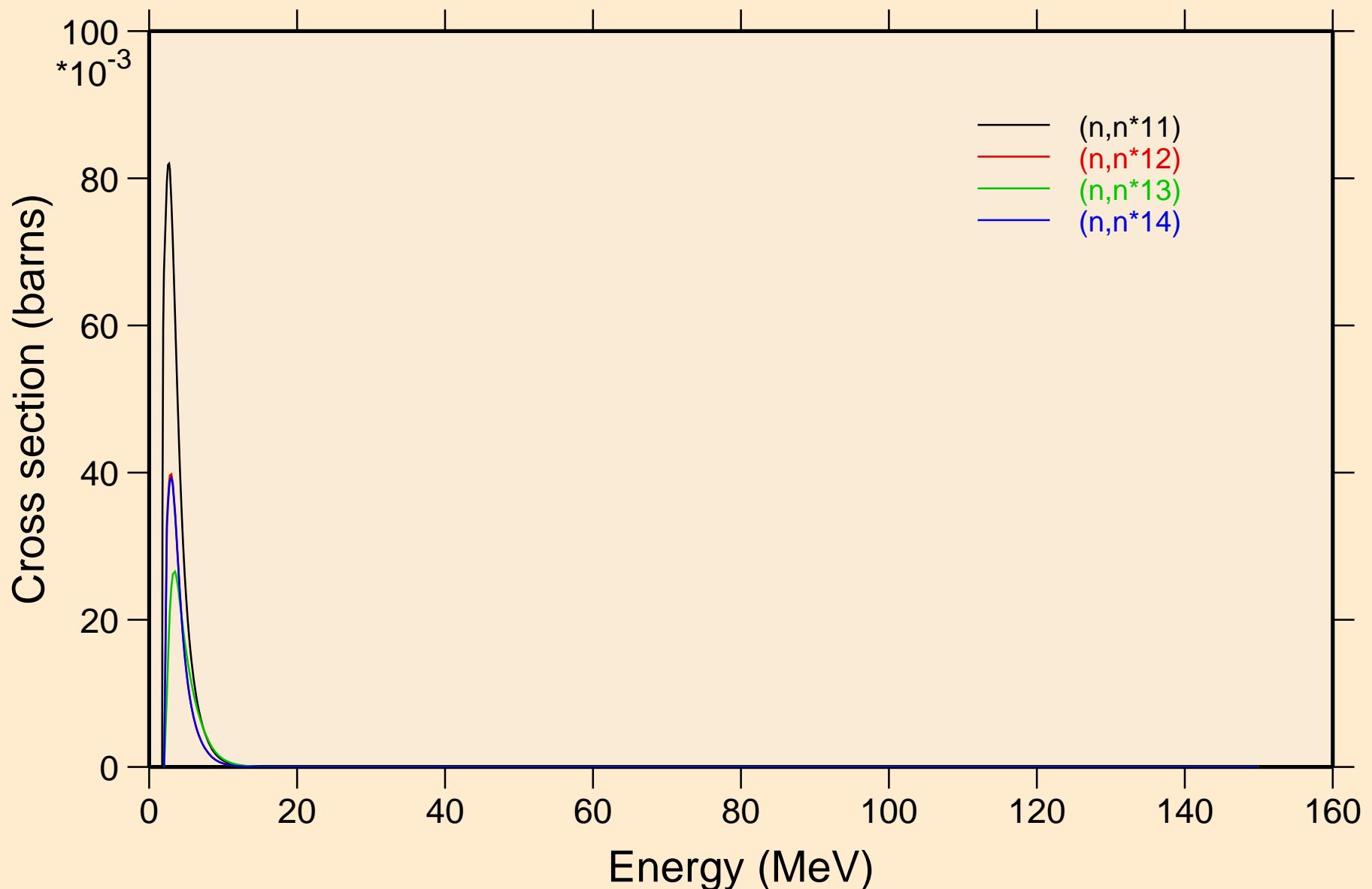
# ADVANCE CALCULATIONS

## Inelastic levels



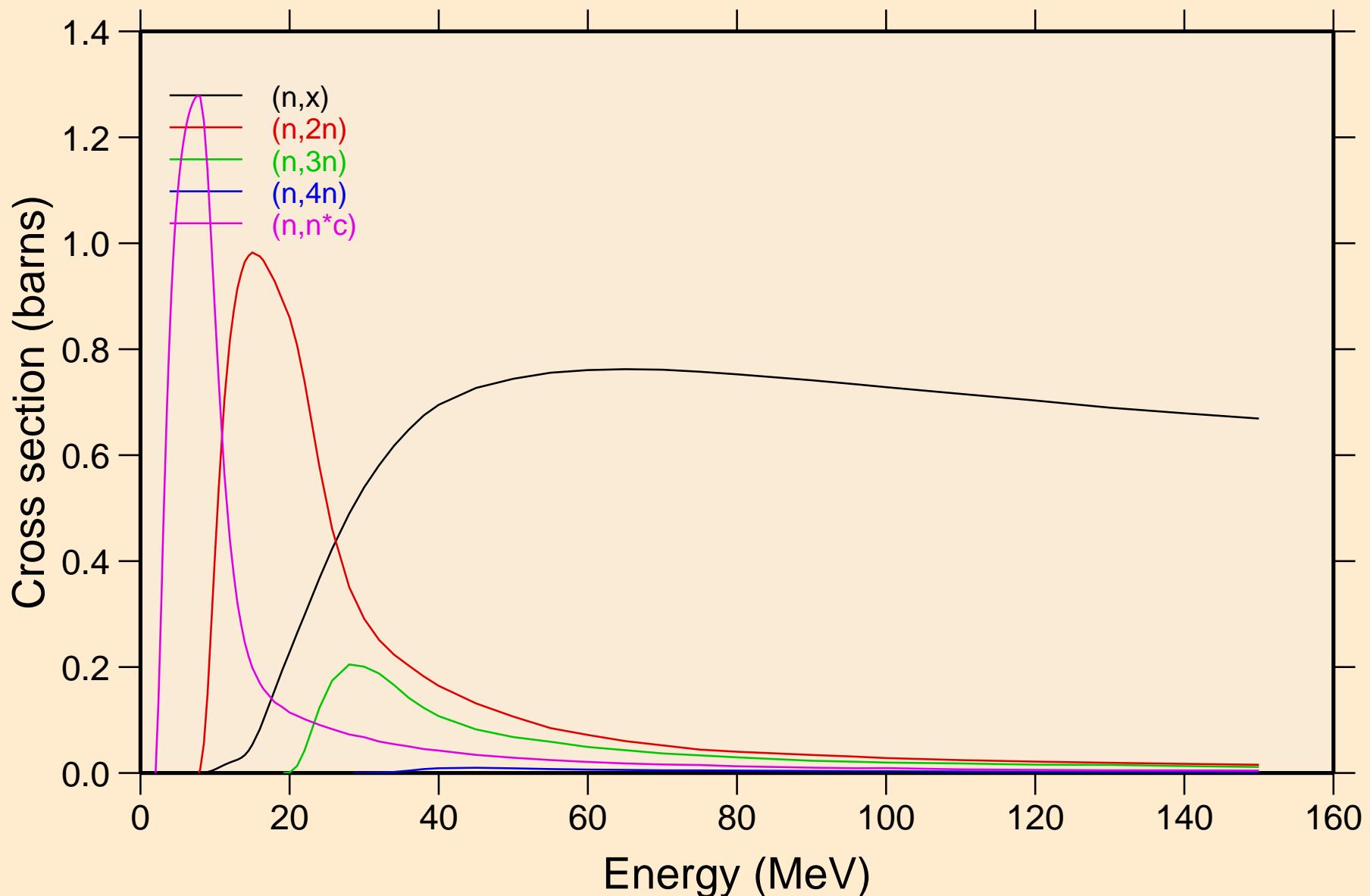
# ADVANCE CALCULATIONS

## Inelastic levels



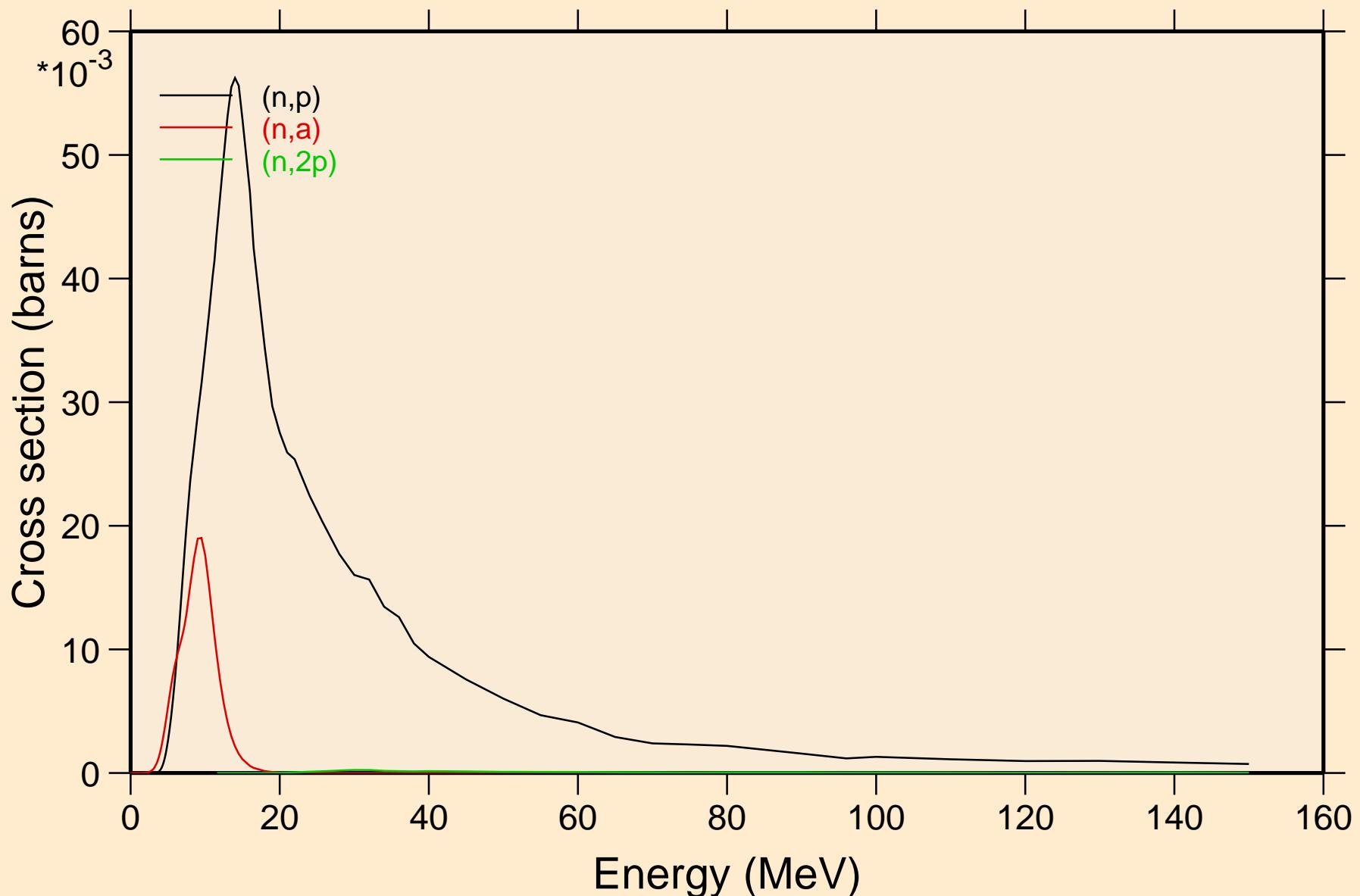
# ADVANCE CALCULATIONS

## Threshold reactions



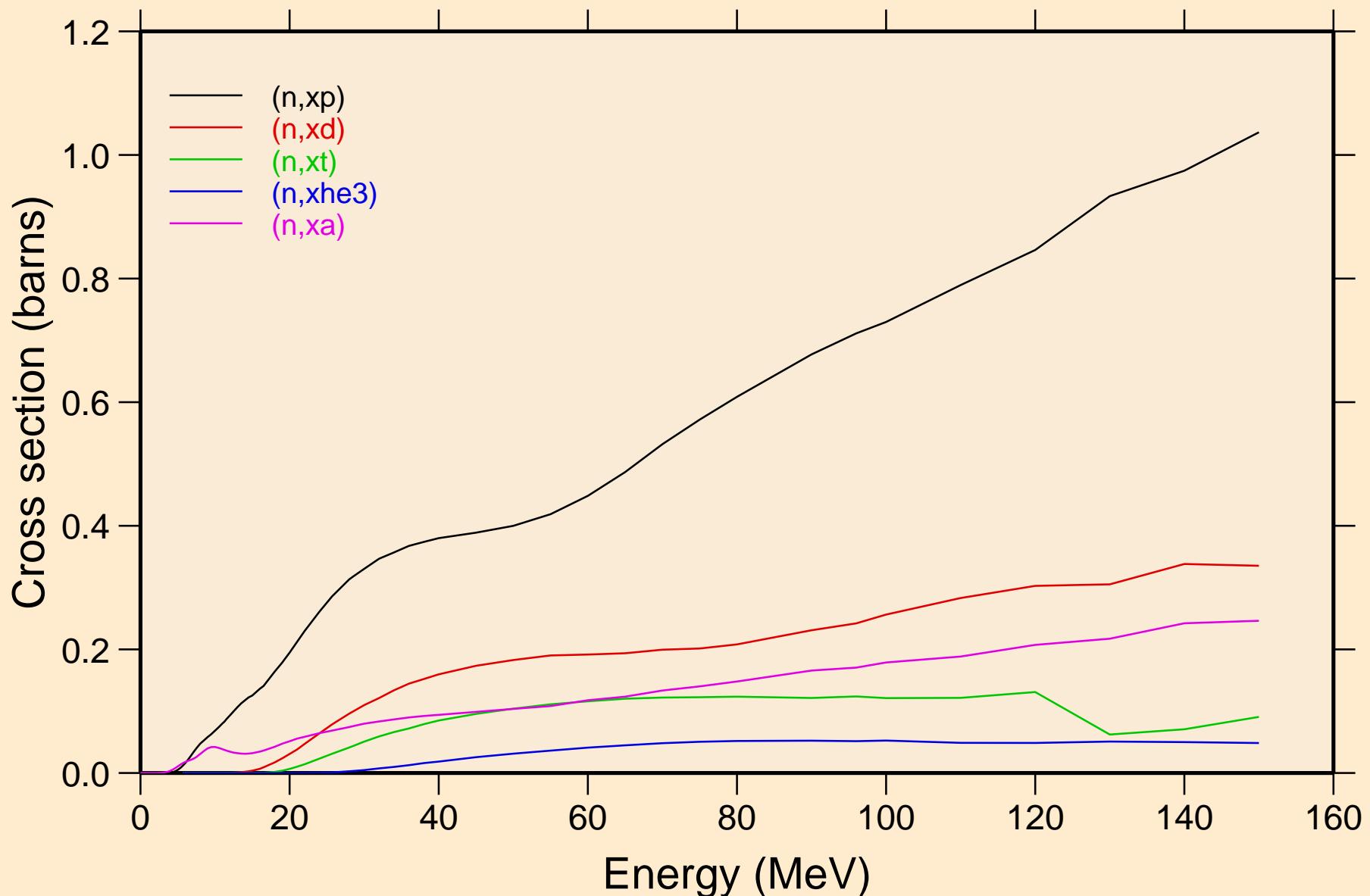
# ADVANCE CALCULATIONS

## Threshold reactions



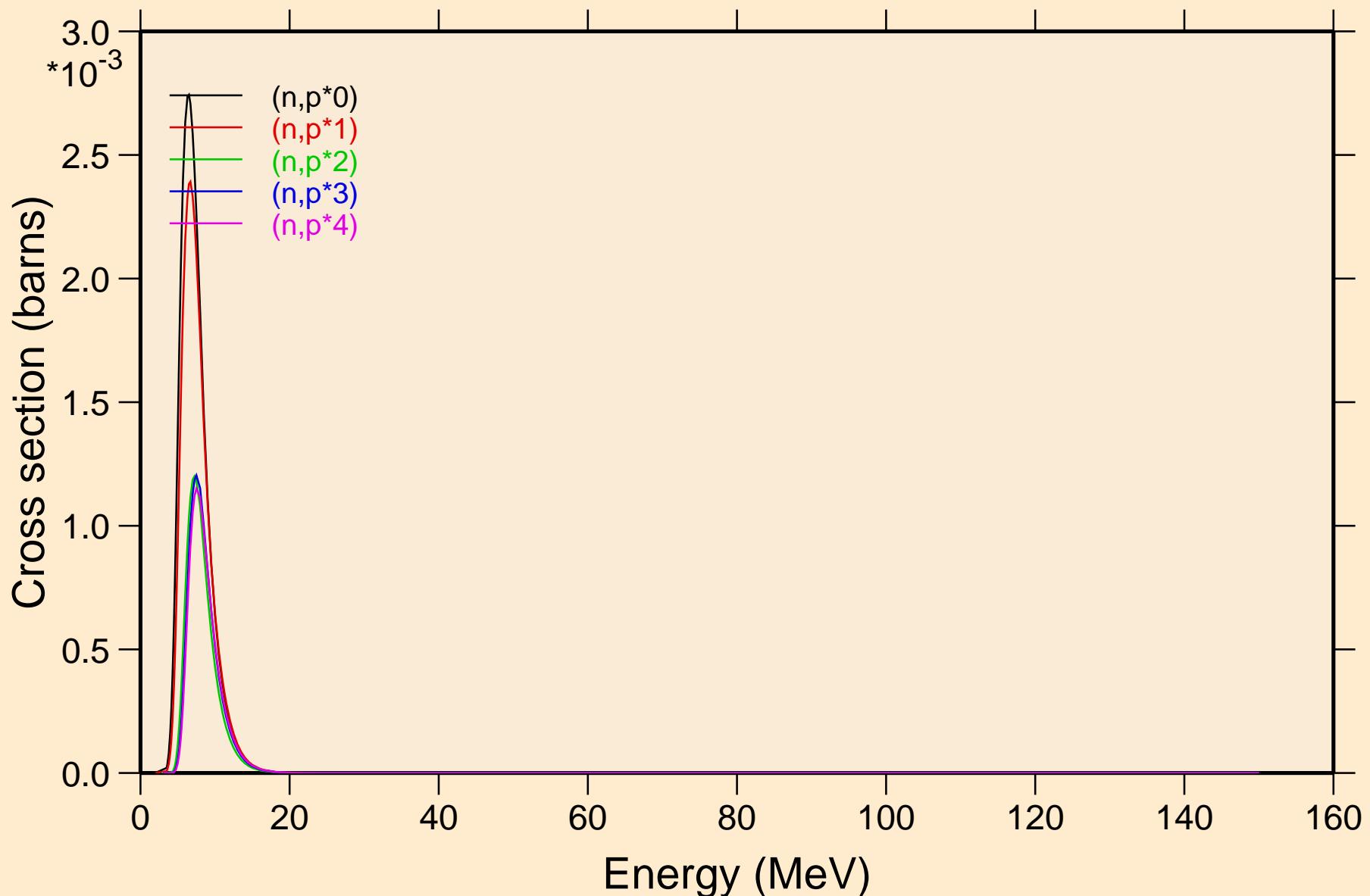
# ADVANCE CALCULATIONS

## Threshold reactions



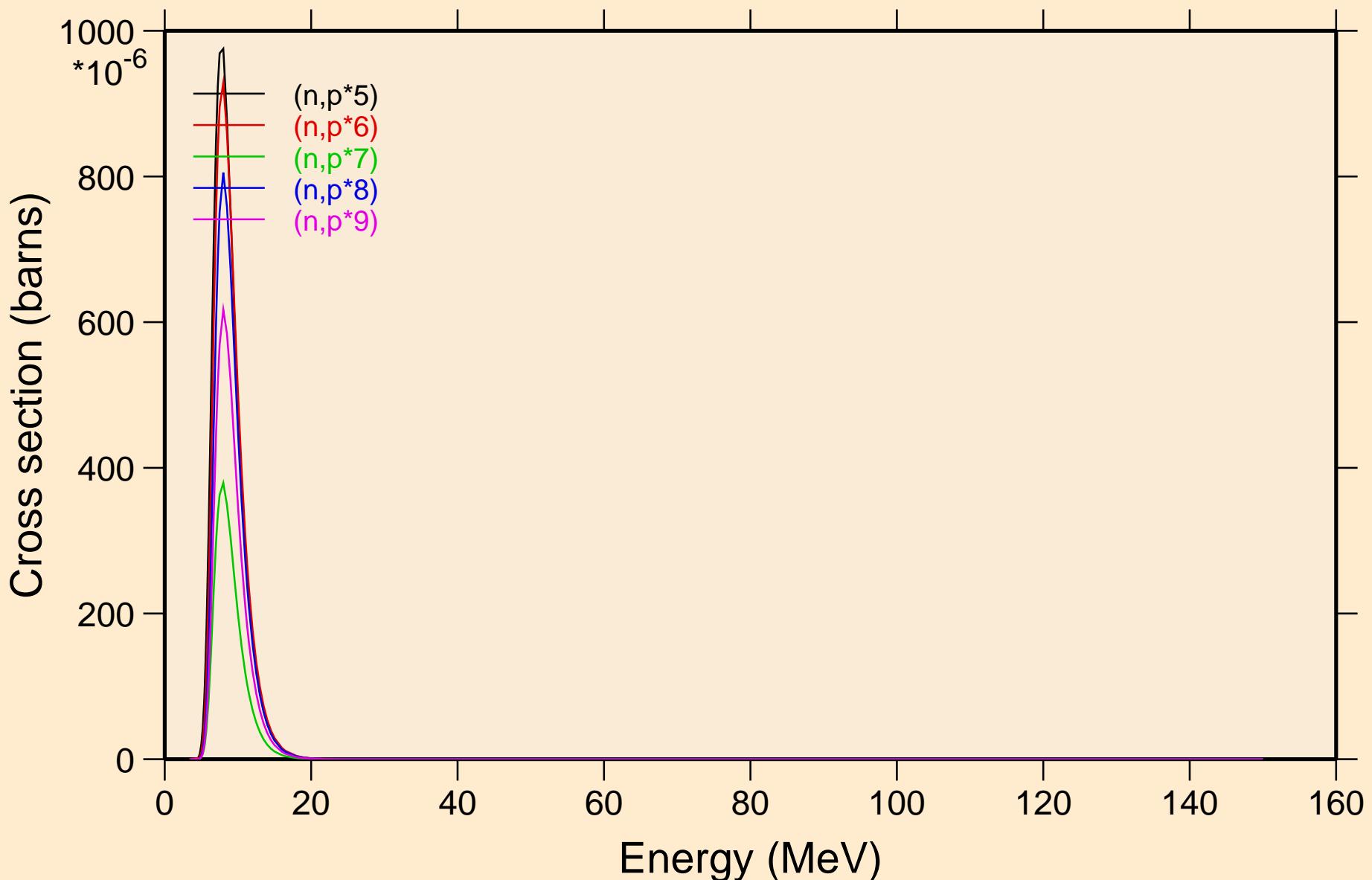
# ADVANCE CALCULATIONS

## Threshold reactions



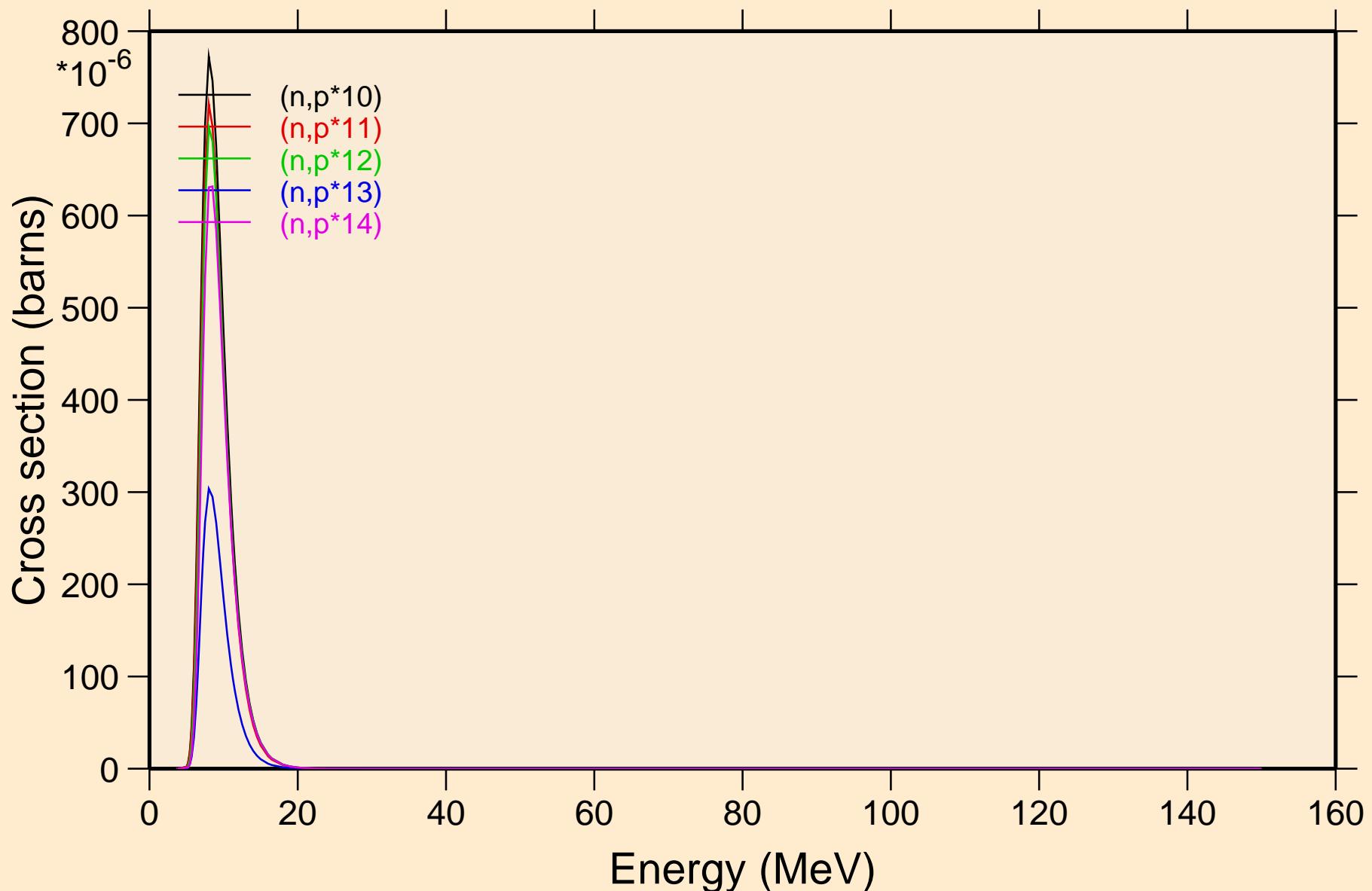
# ADVANCE CALCULATIONS

## Threshold reactions



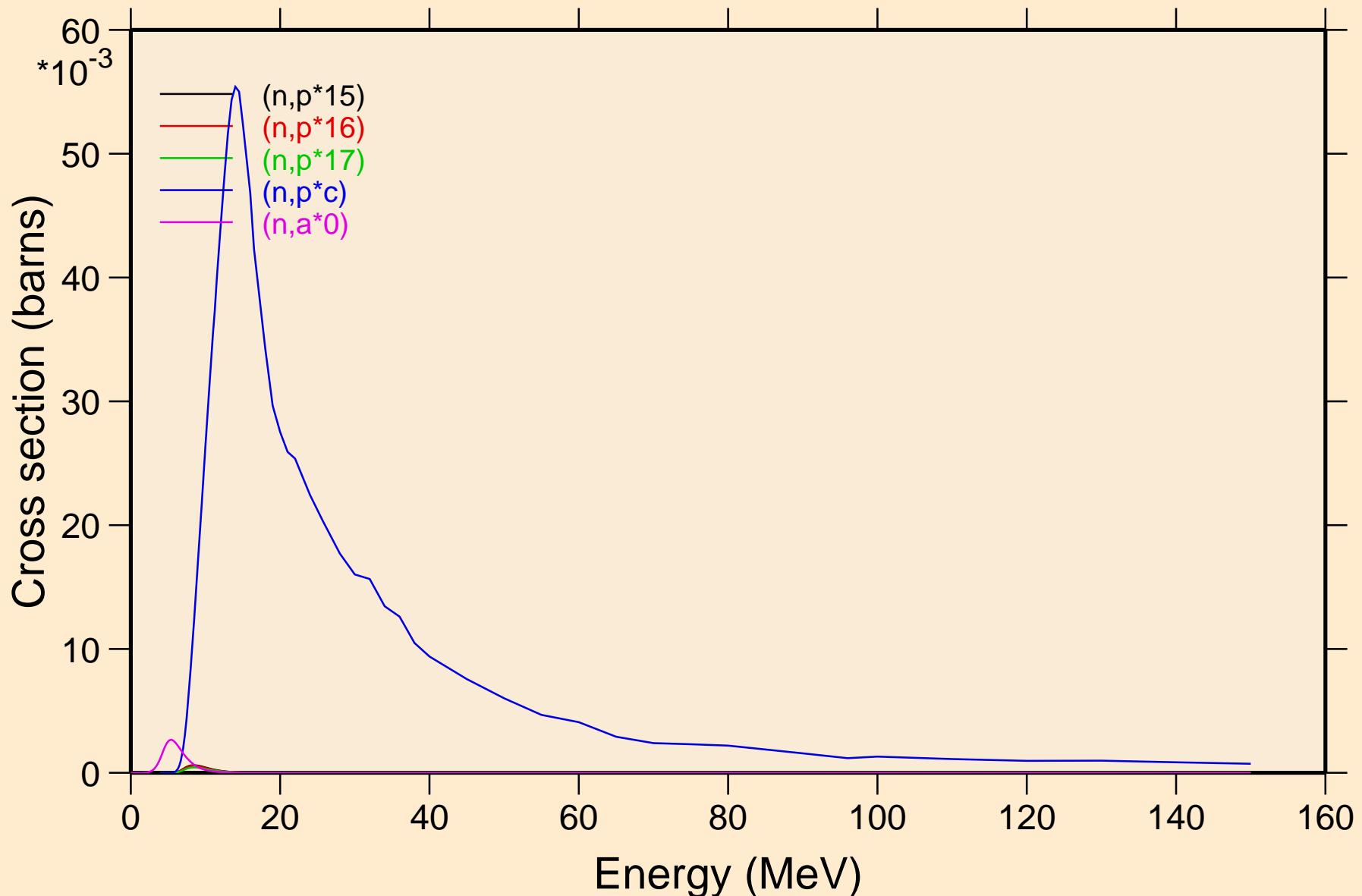
# ADVANCE CALCULATIONS

## Threshold reactions



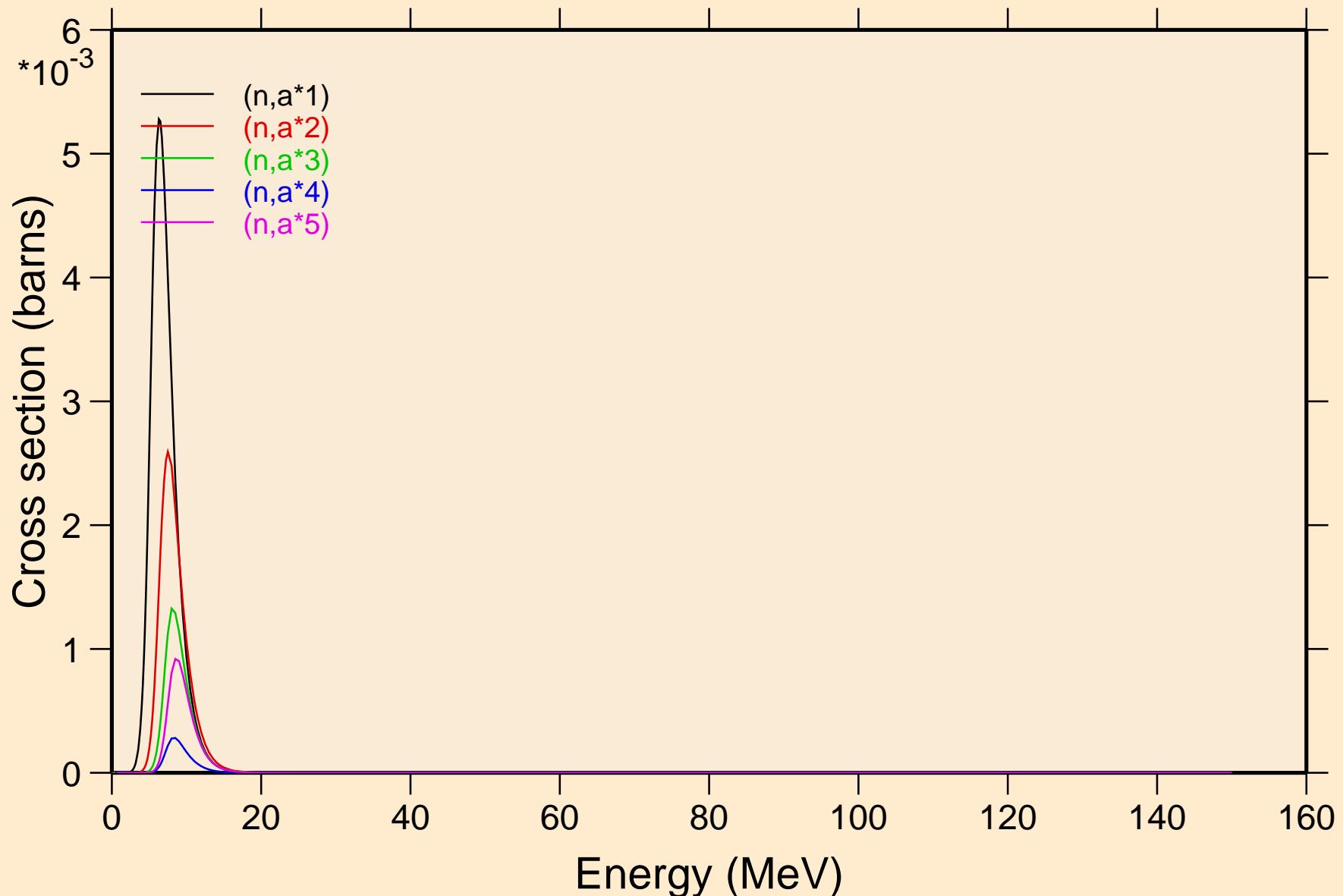
# ADVANCE CALCULATIONS

## Threshold reactions



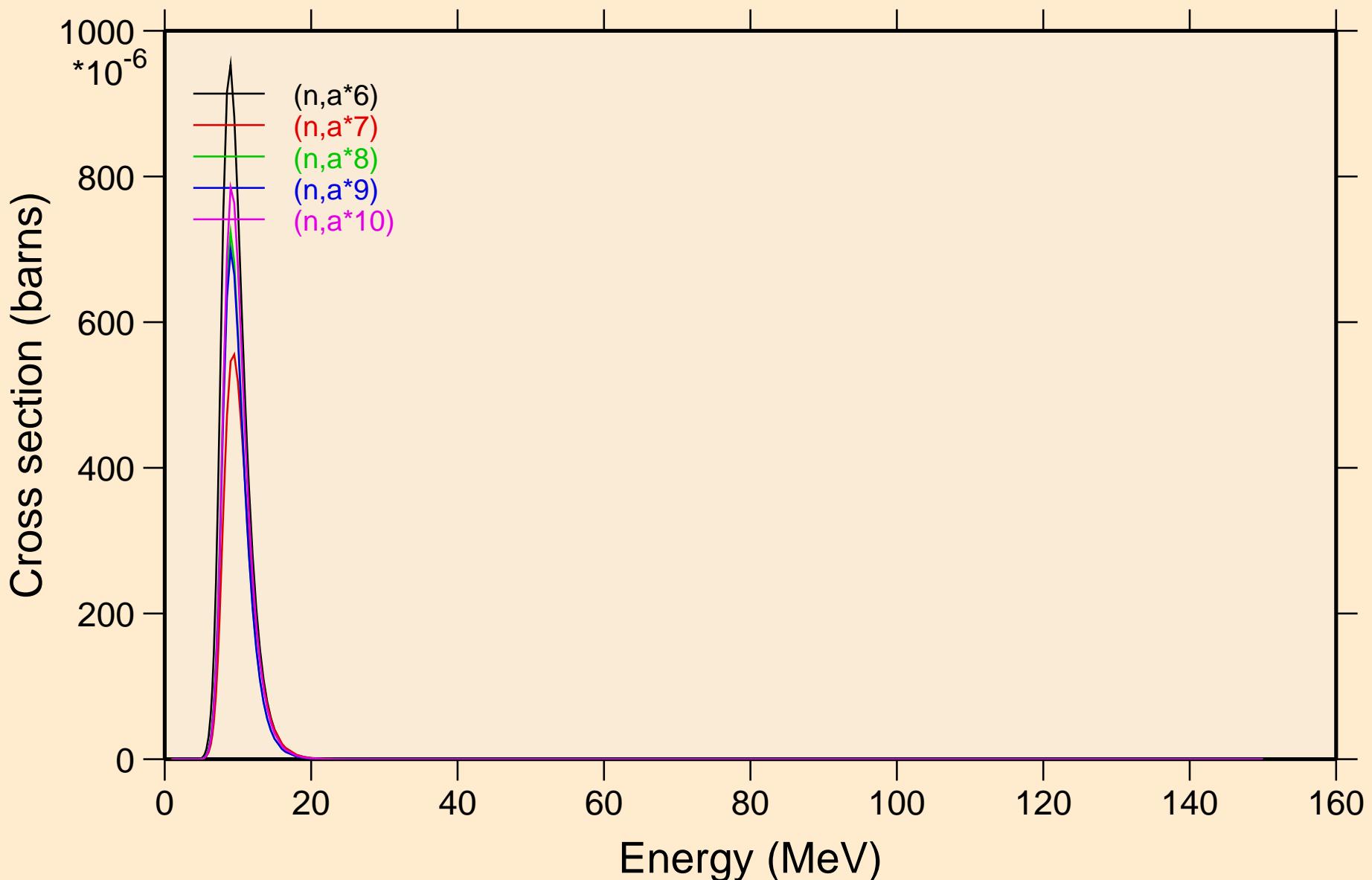
# ADVANCE CALCULATIONS

## Threshold reactions



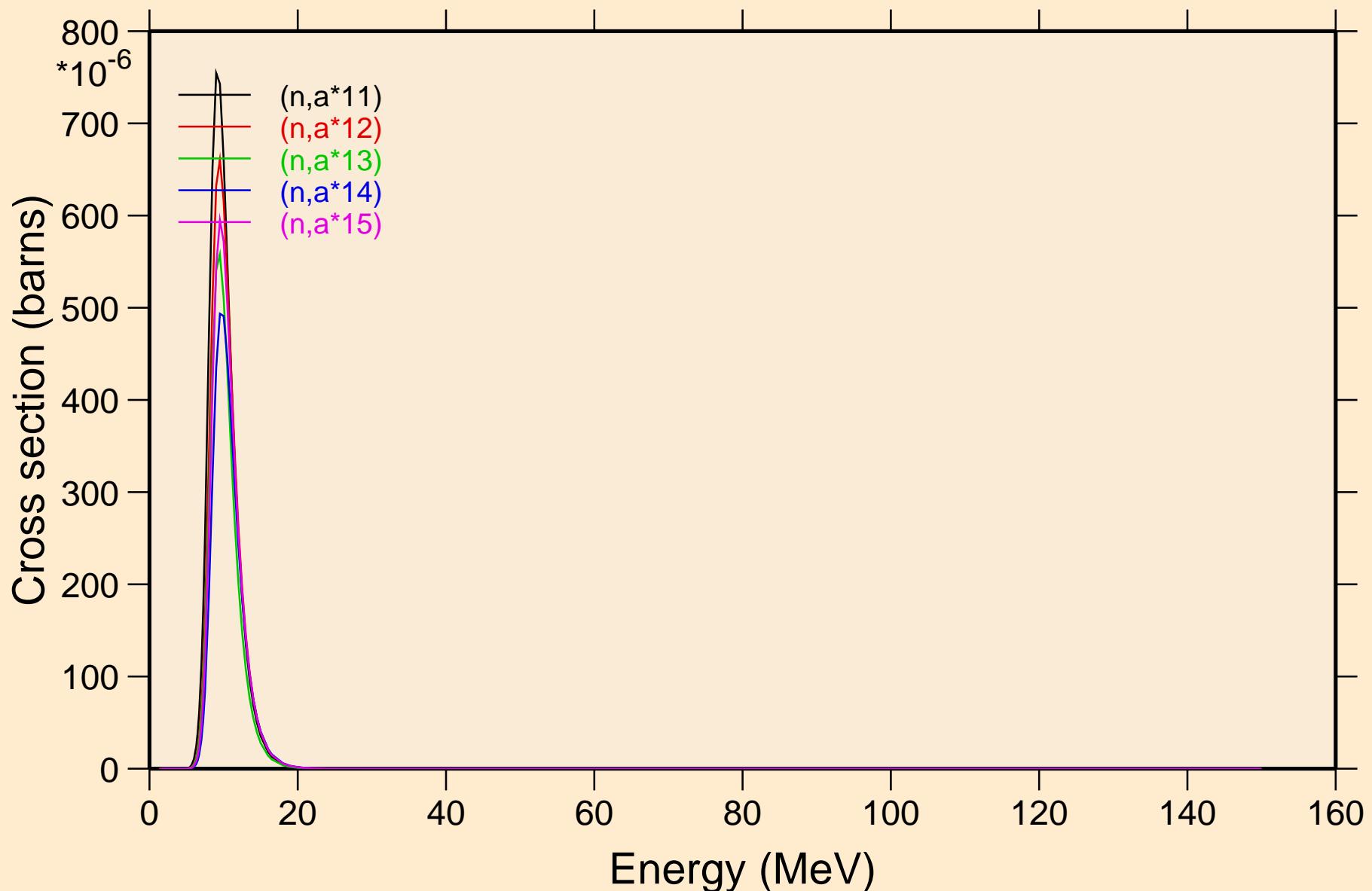
# ADVANCE CALCULATIONS

## Threshold reactions



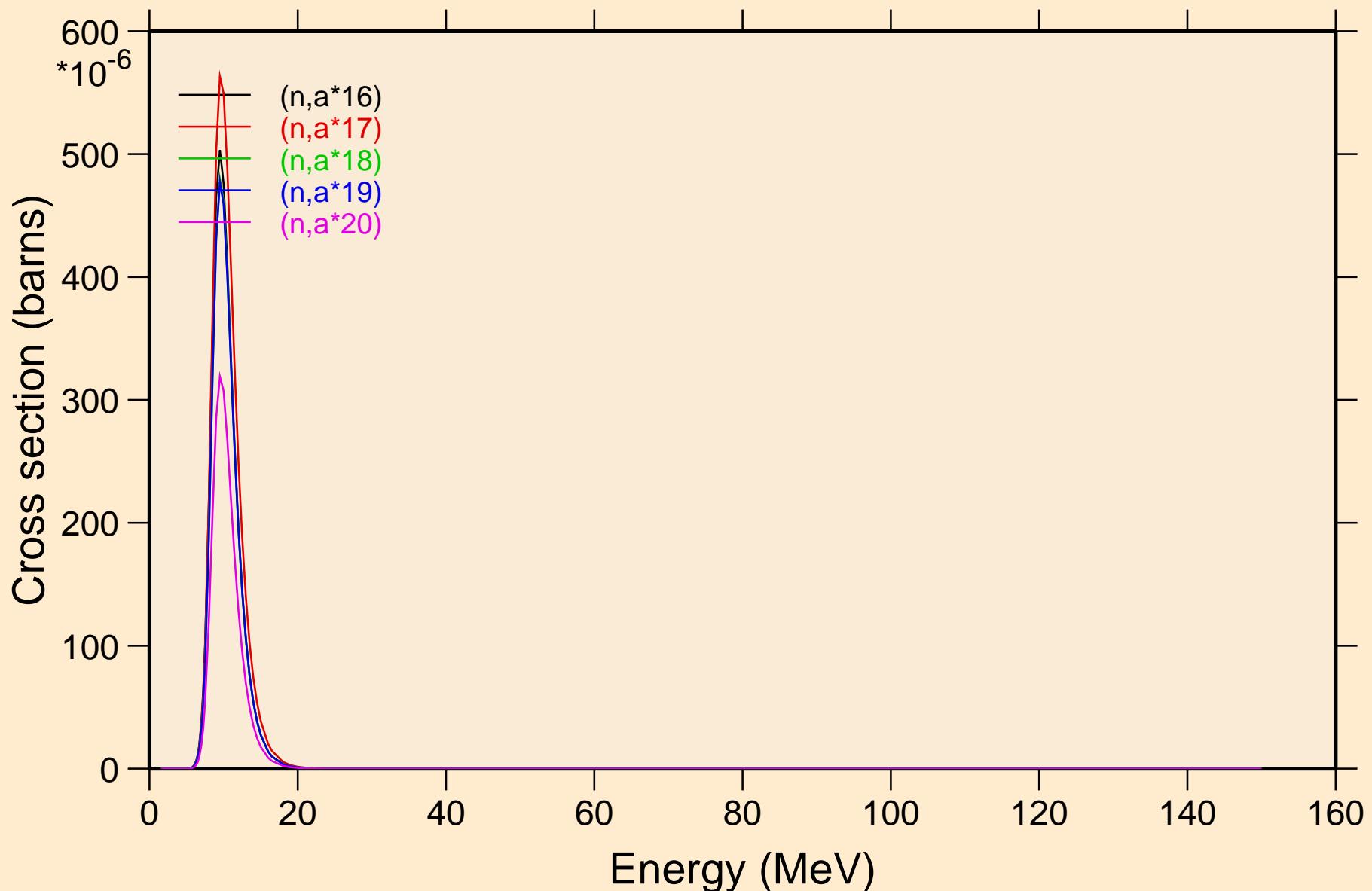
# ADVANCE CALCULATIONS

## Threshold reactions



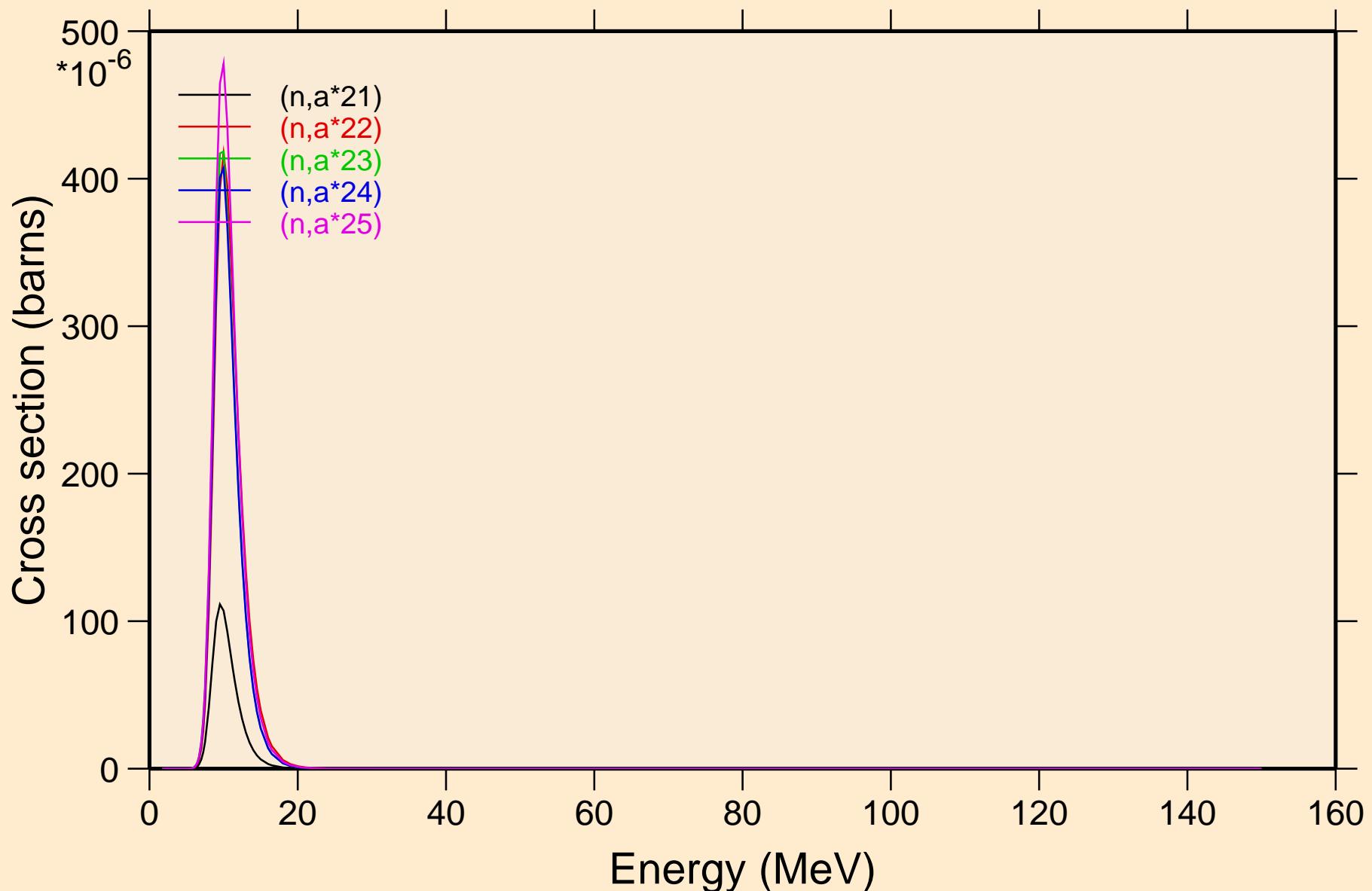
# ADVANCE CALCULATIONS

## Threshold reactions



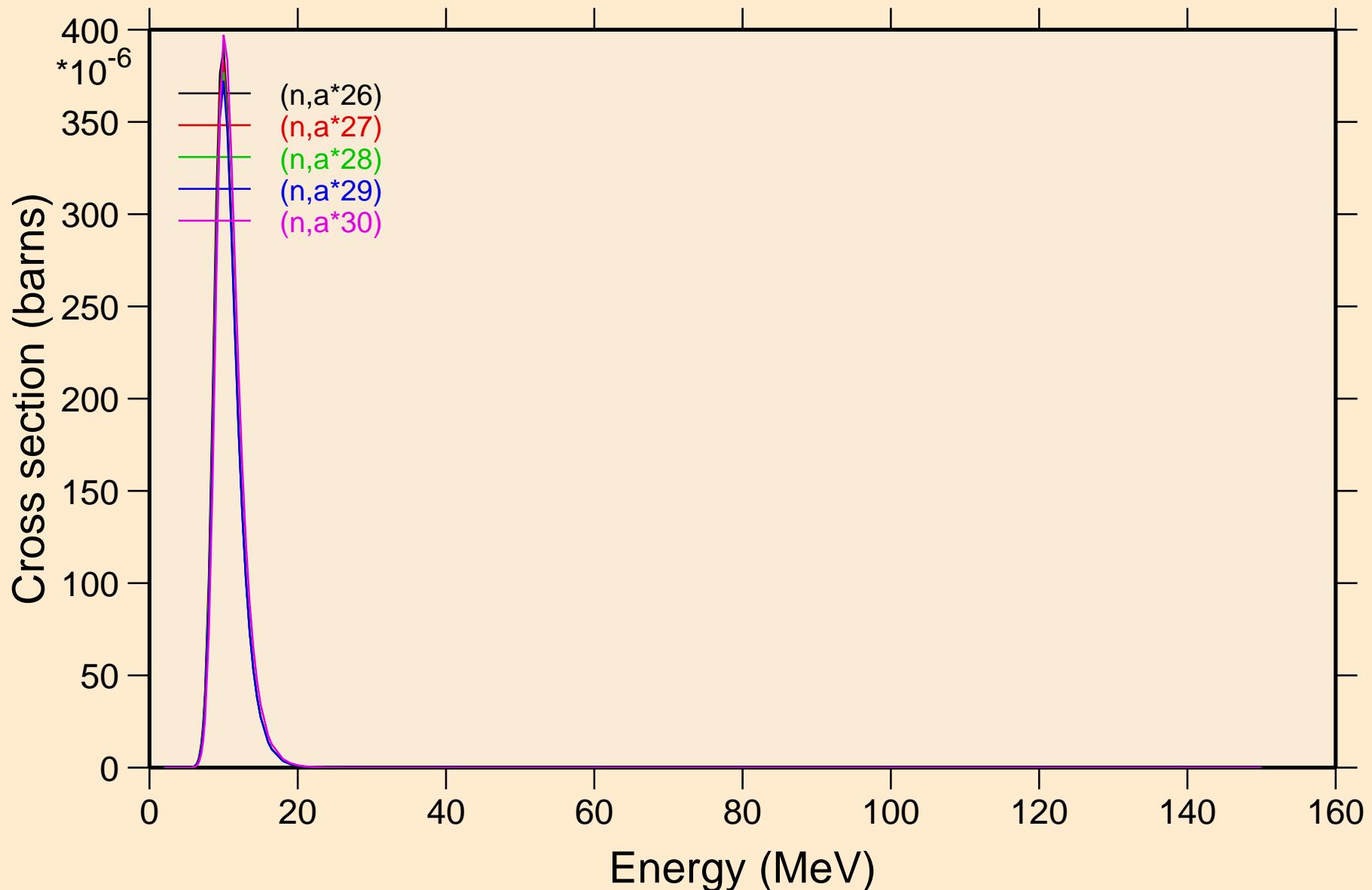
# ADVANCE CALCULATIONS

## Threshold reactions



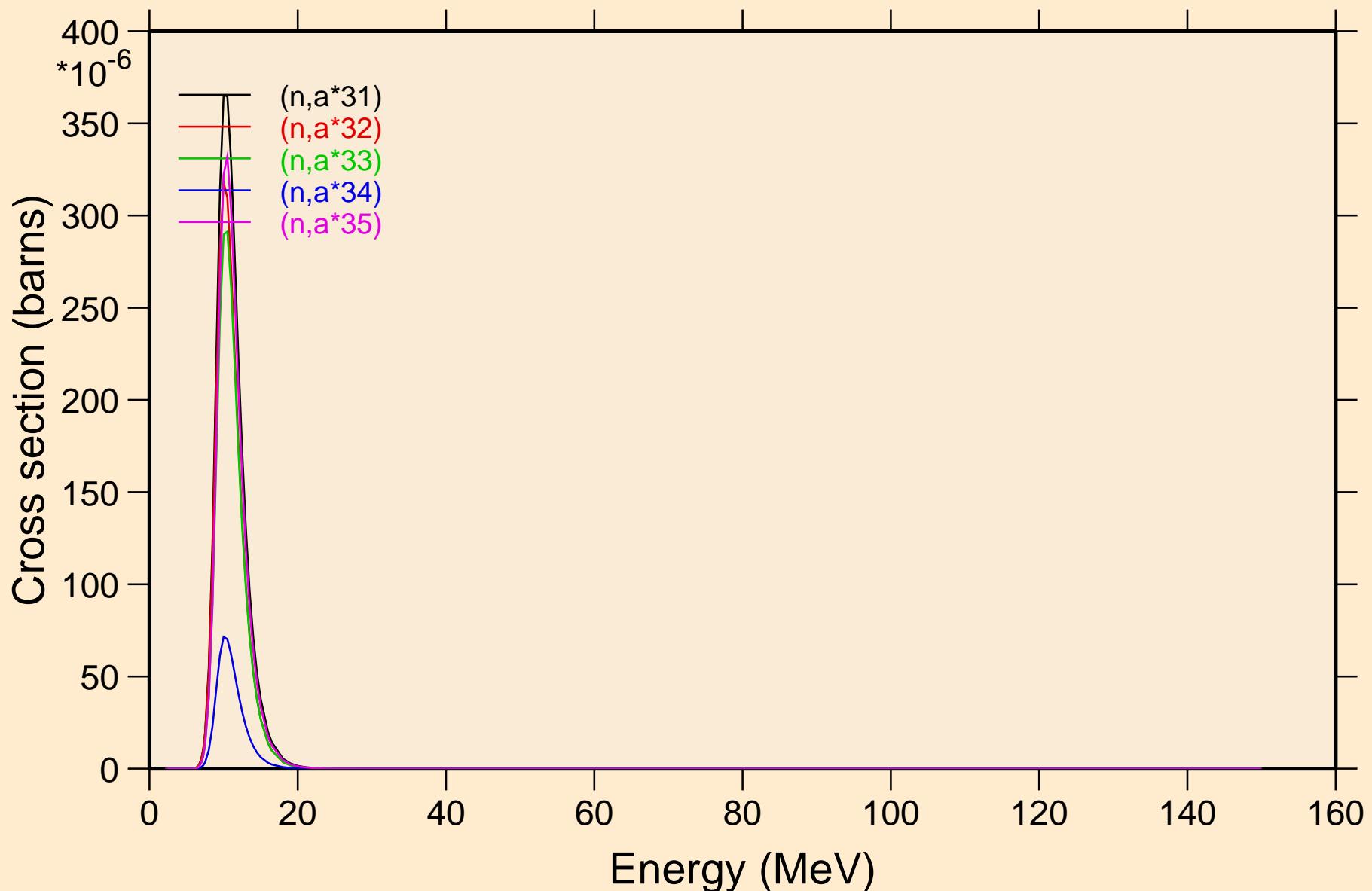
# ADVANCE CALCULATIONS

## Threshold reactions



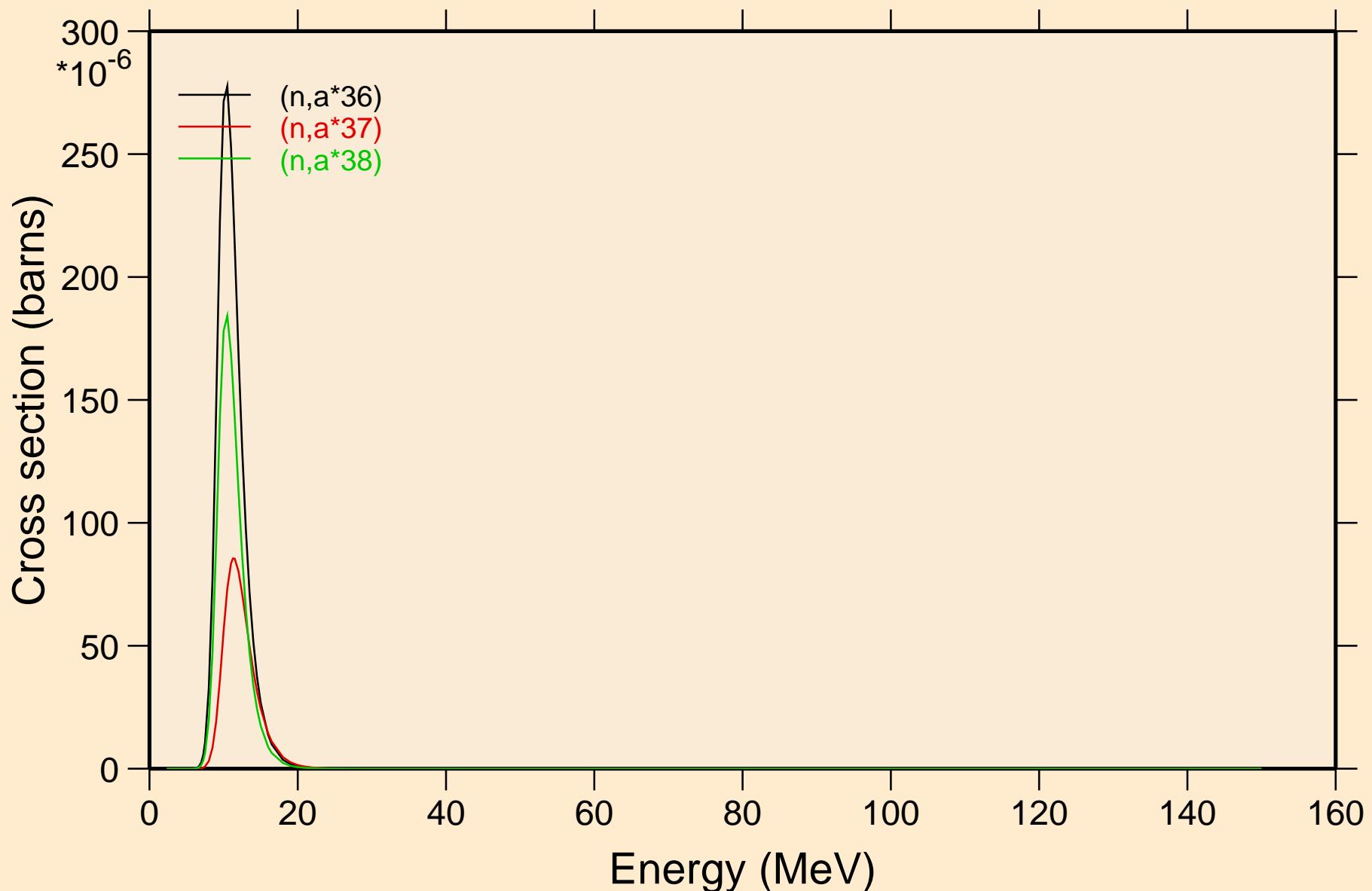
# ADVANCE CALCULATIONS

## Threshold reactions



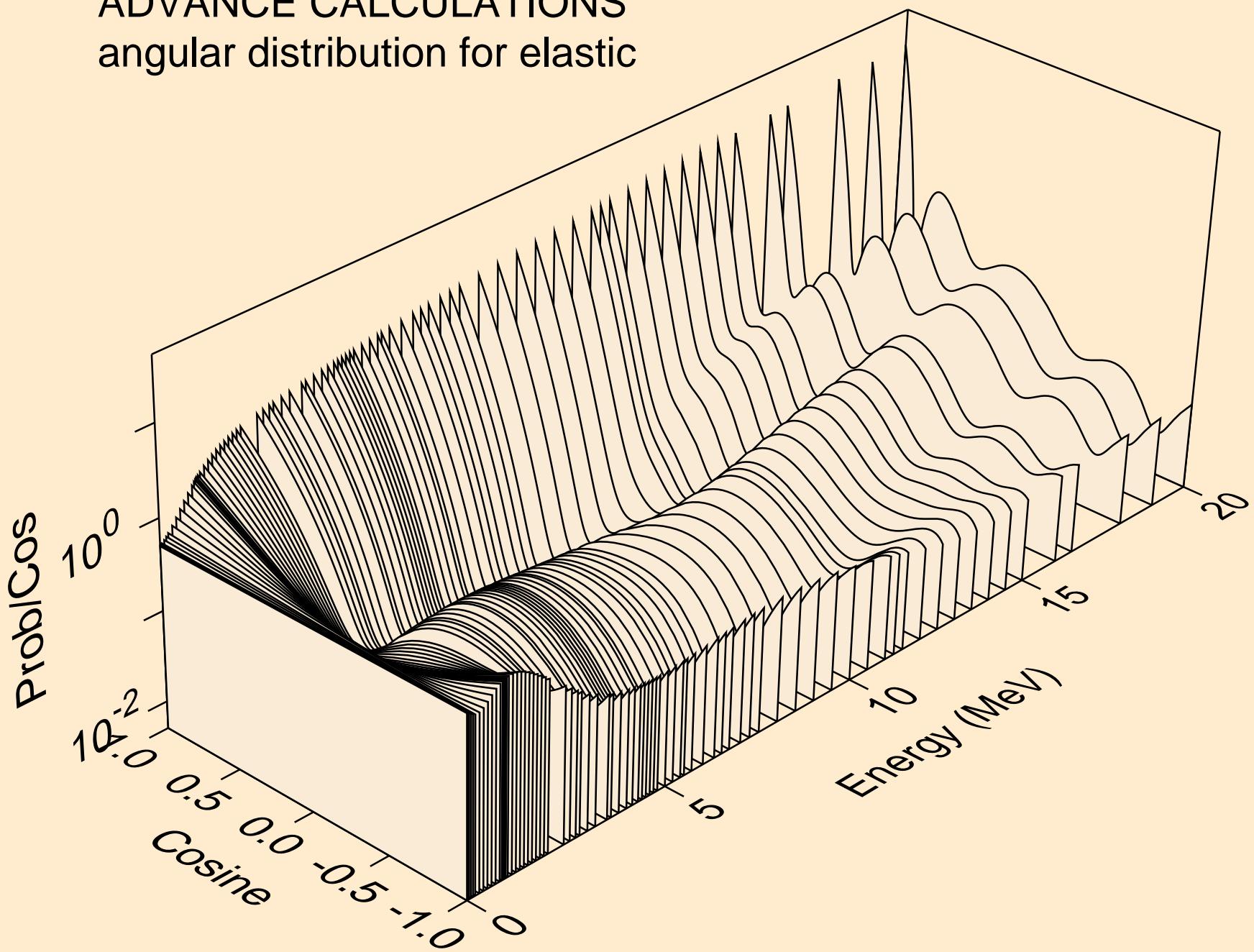
# ADVANCE CALCULATIONS

## Threshold reactions



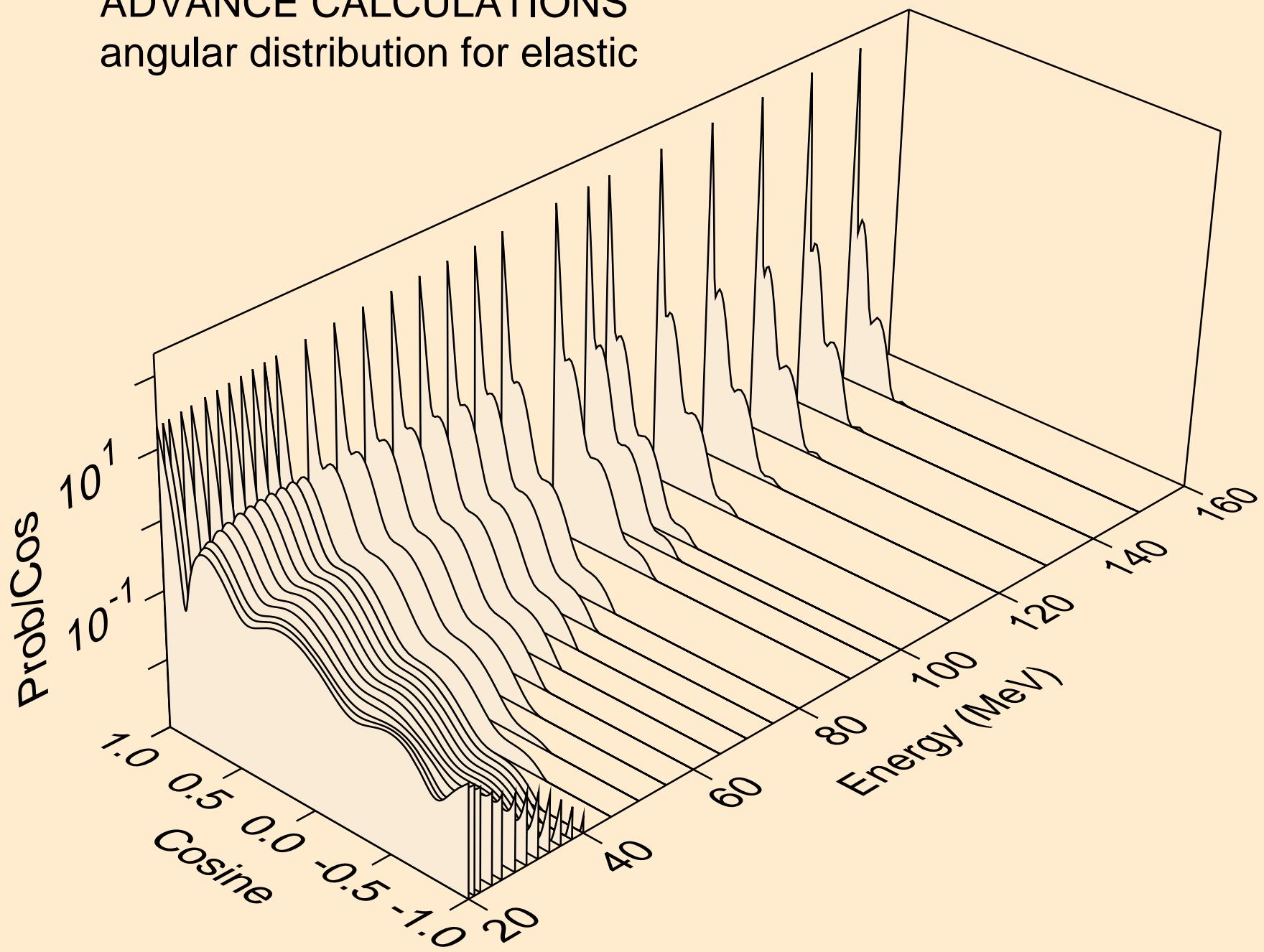
# ADVANCE CALCULATIONS

angular distribution for elastic



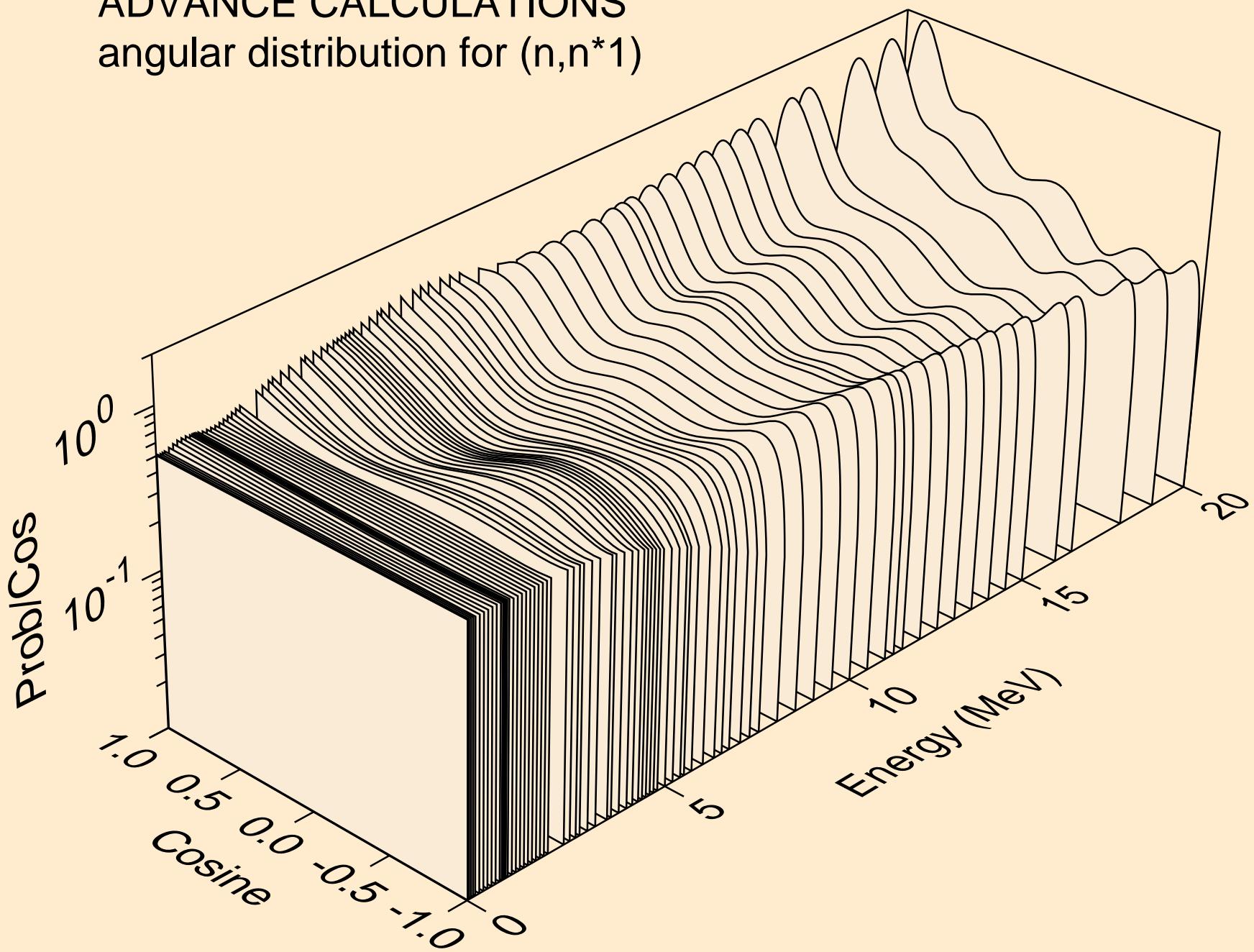
# ADVANCE CALCULATIONS

## angular distribution for elastic



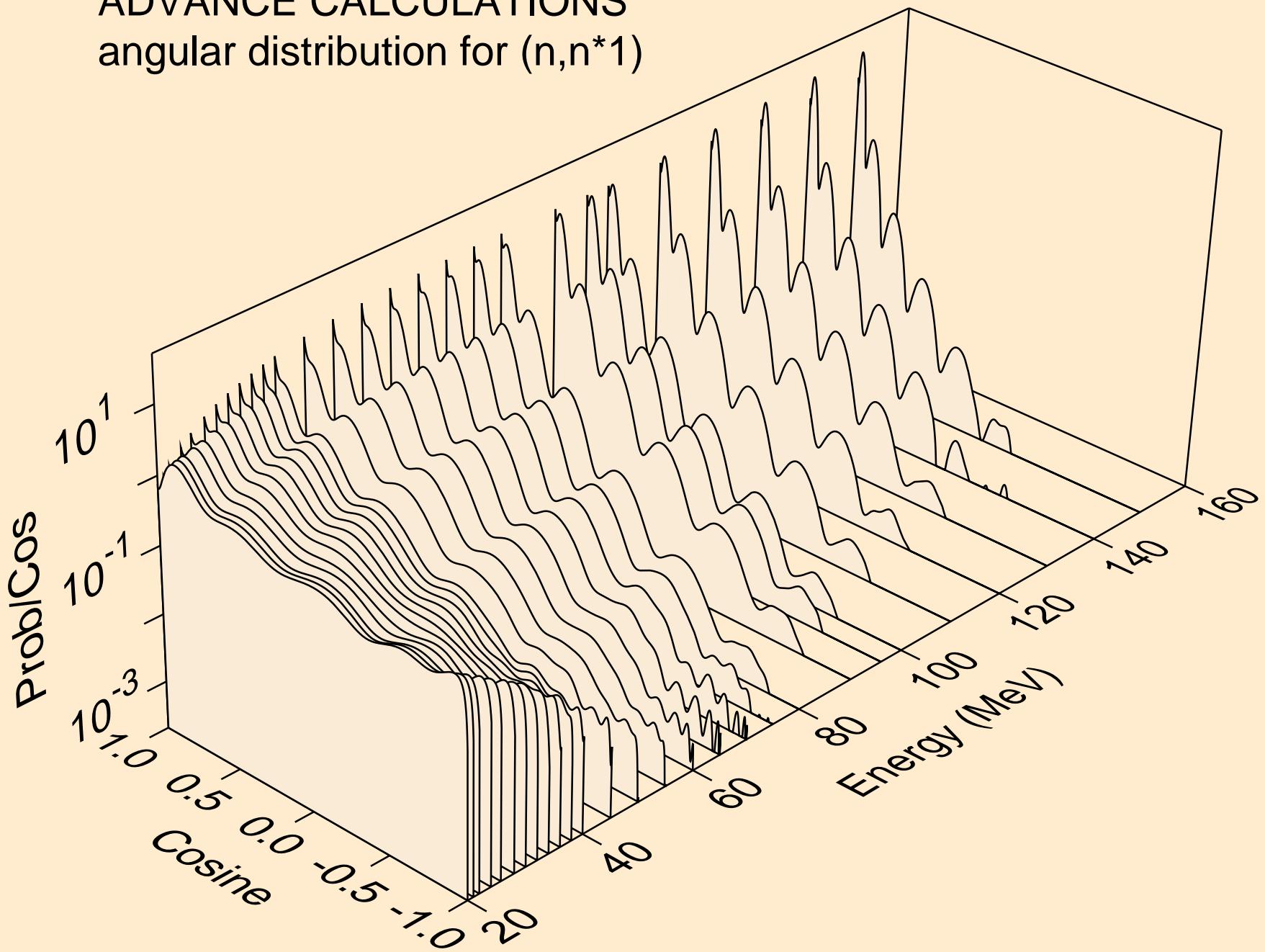
# ADVANCE CALCULATIONS

angular distribution for  $(n,n^*)$



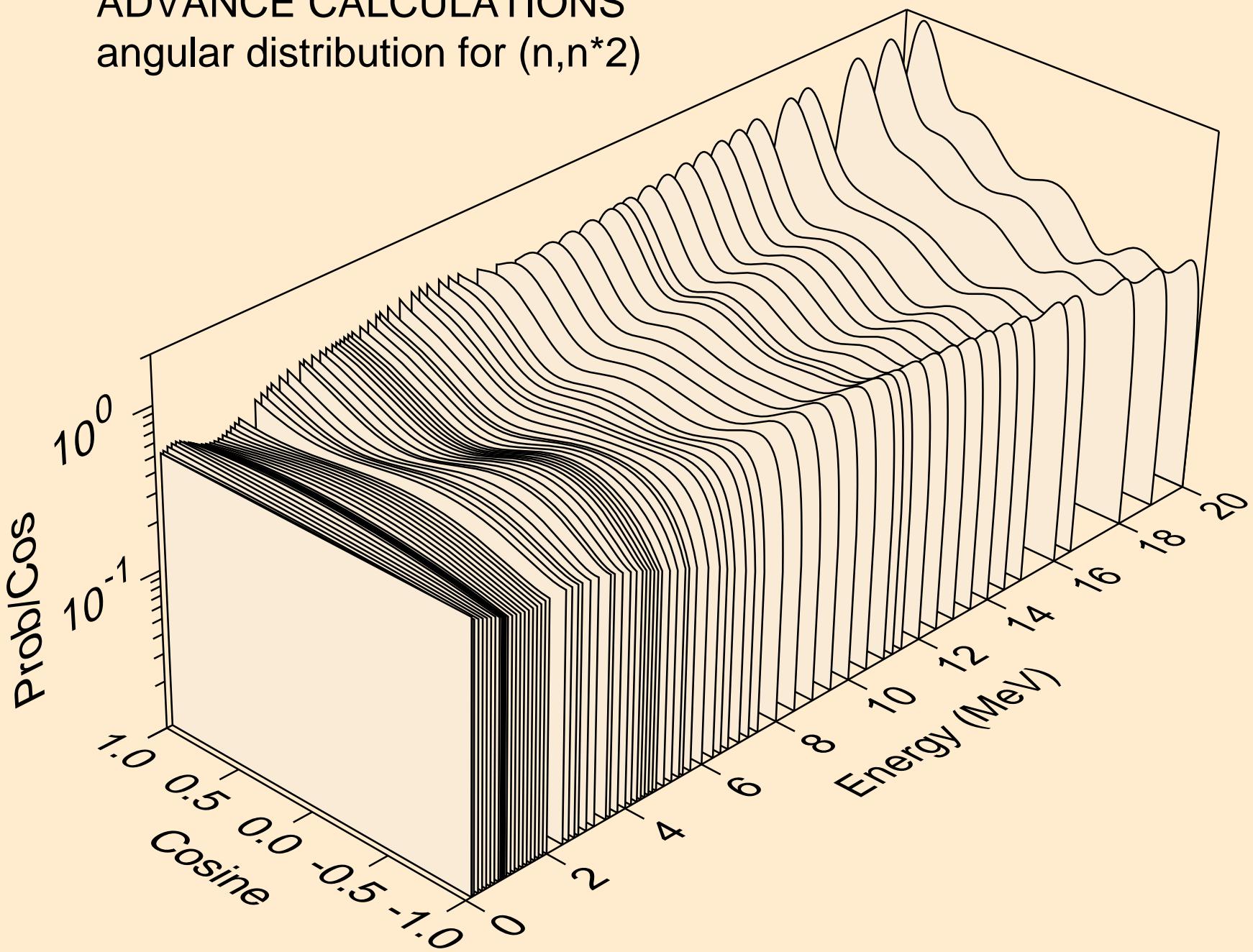
# ADVANCE CALCULATIONS

## angular distribution for (n,n\*1)



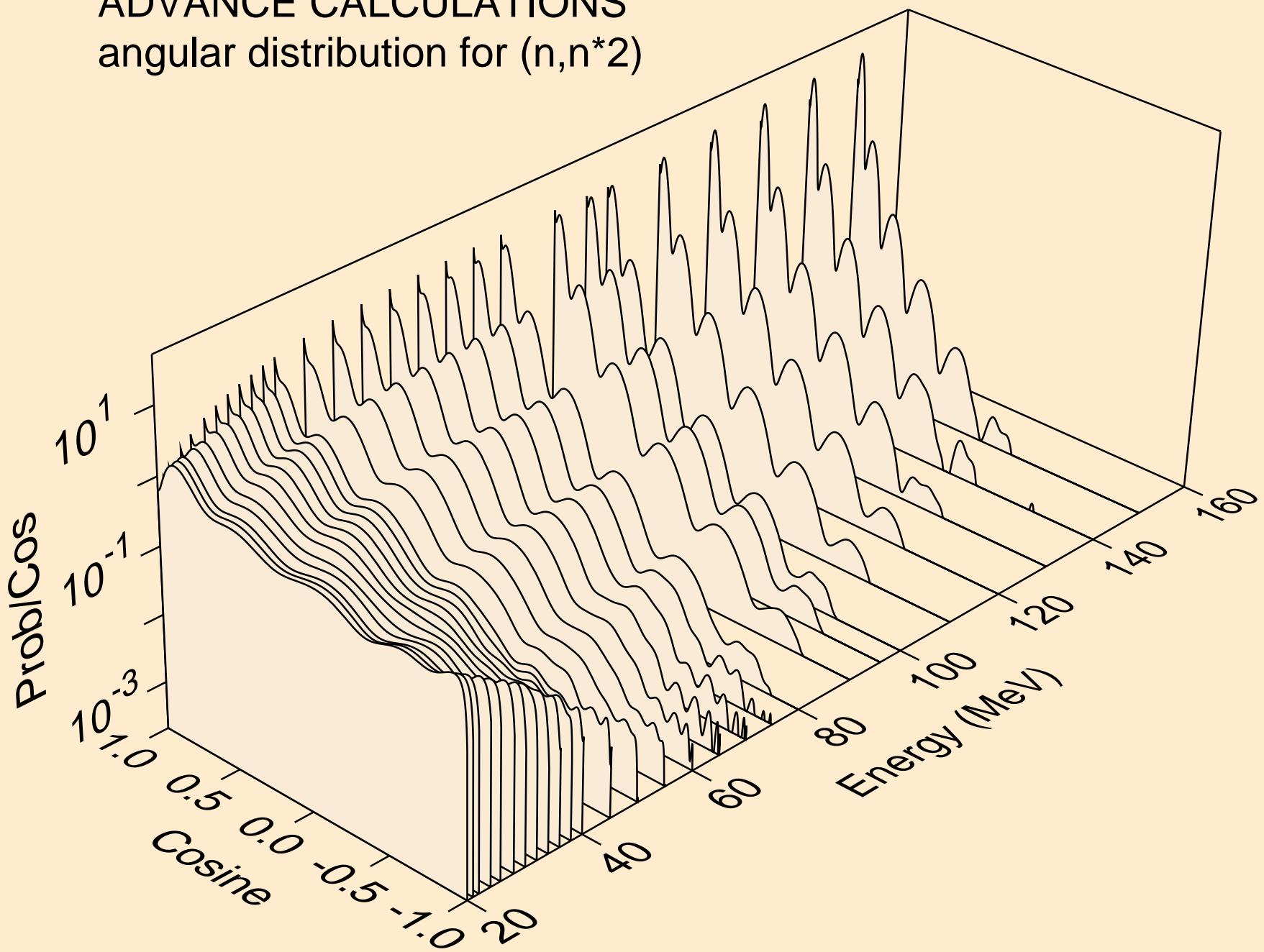
# ADVANCE CALCULATIONS

angular distribution for  $(n,n^*)$



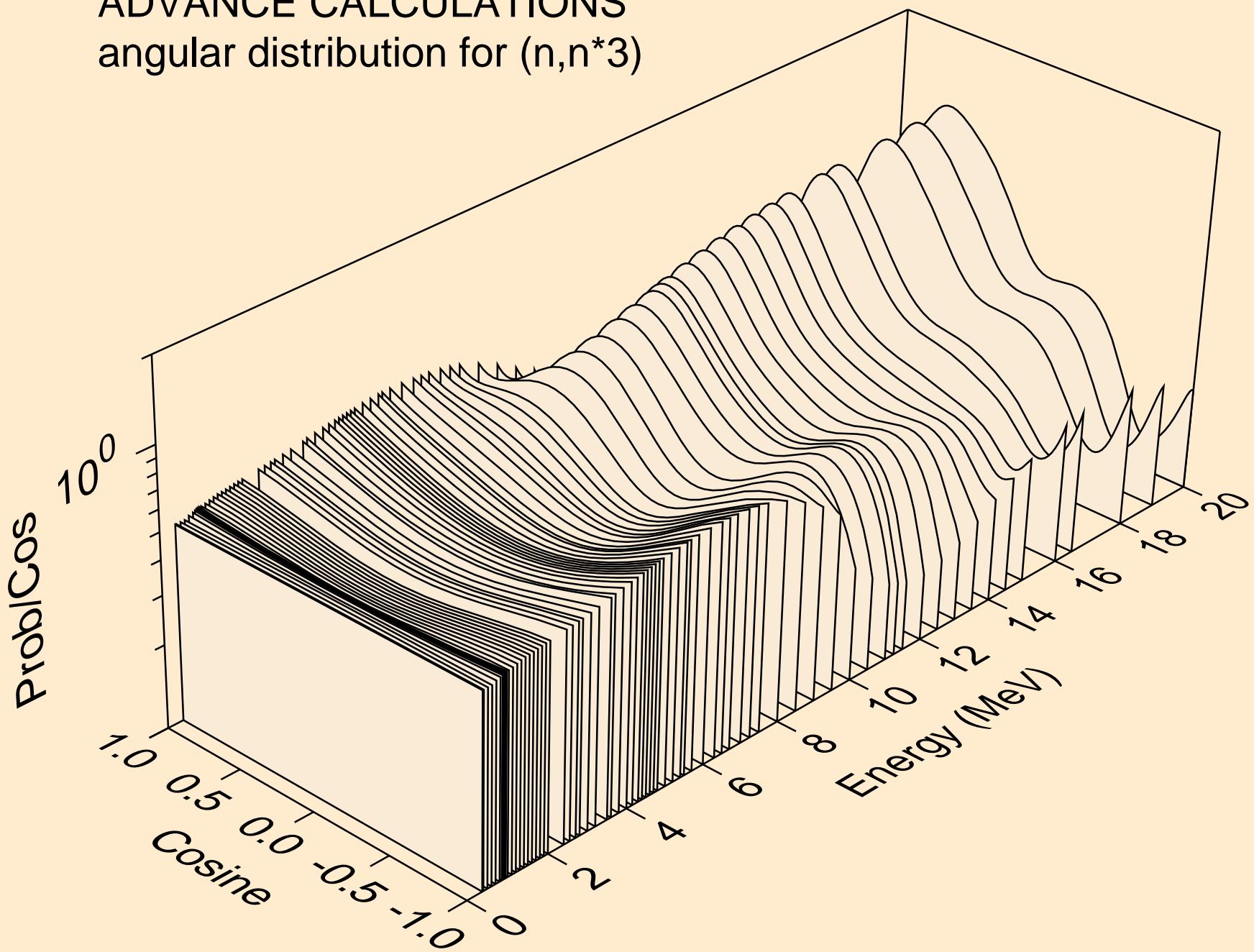
# ADVANCE CALCULATIONS

angular distribution for  $(n,n^*)^2$



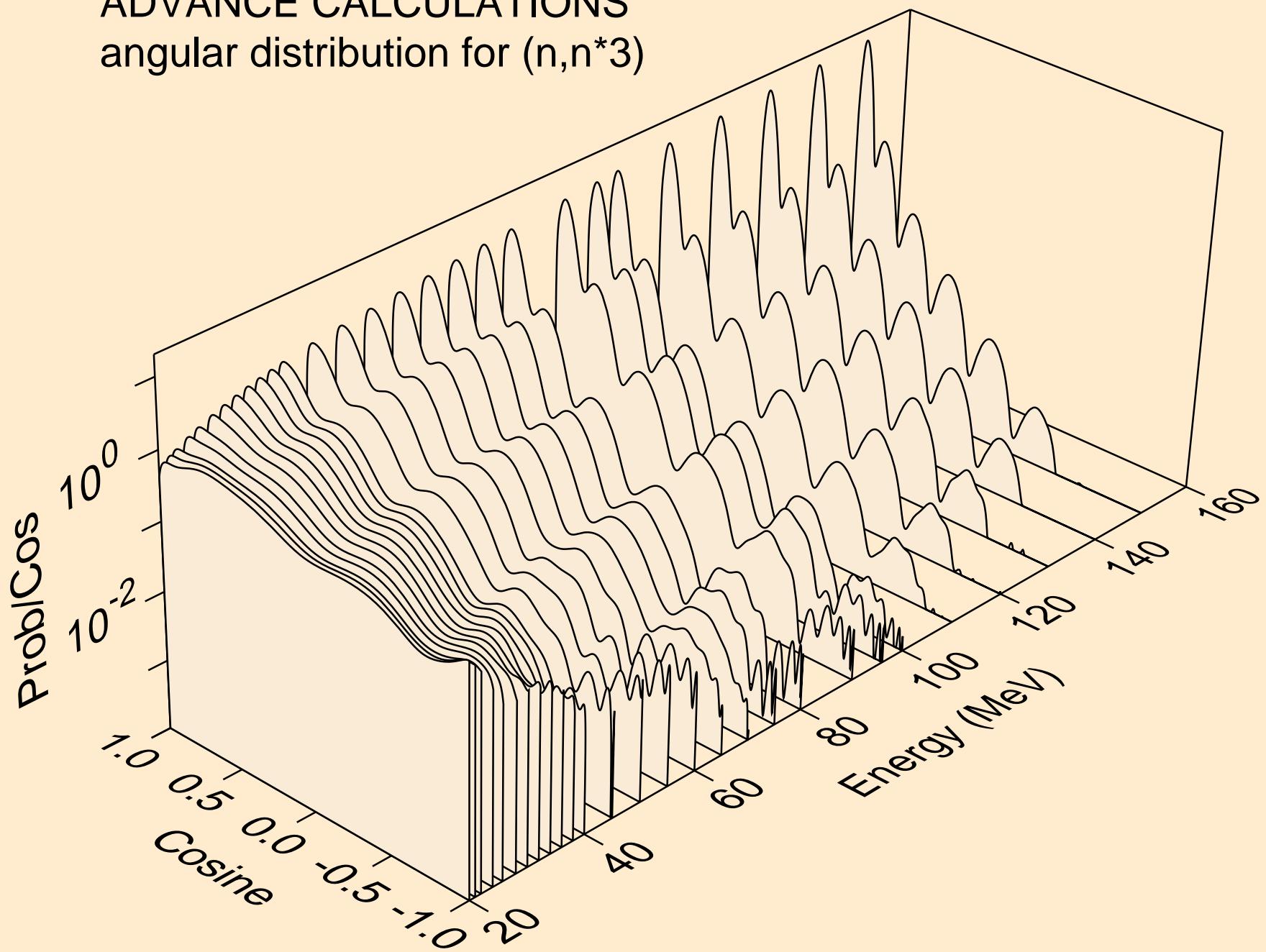
# ADVANCE CALCULATIONS

angular distribution for  $(n,n^*)^3$



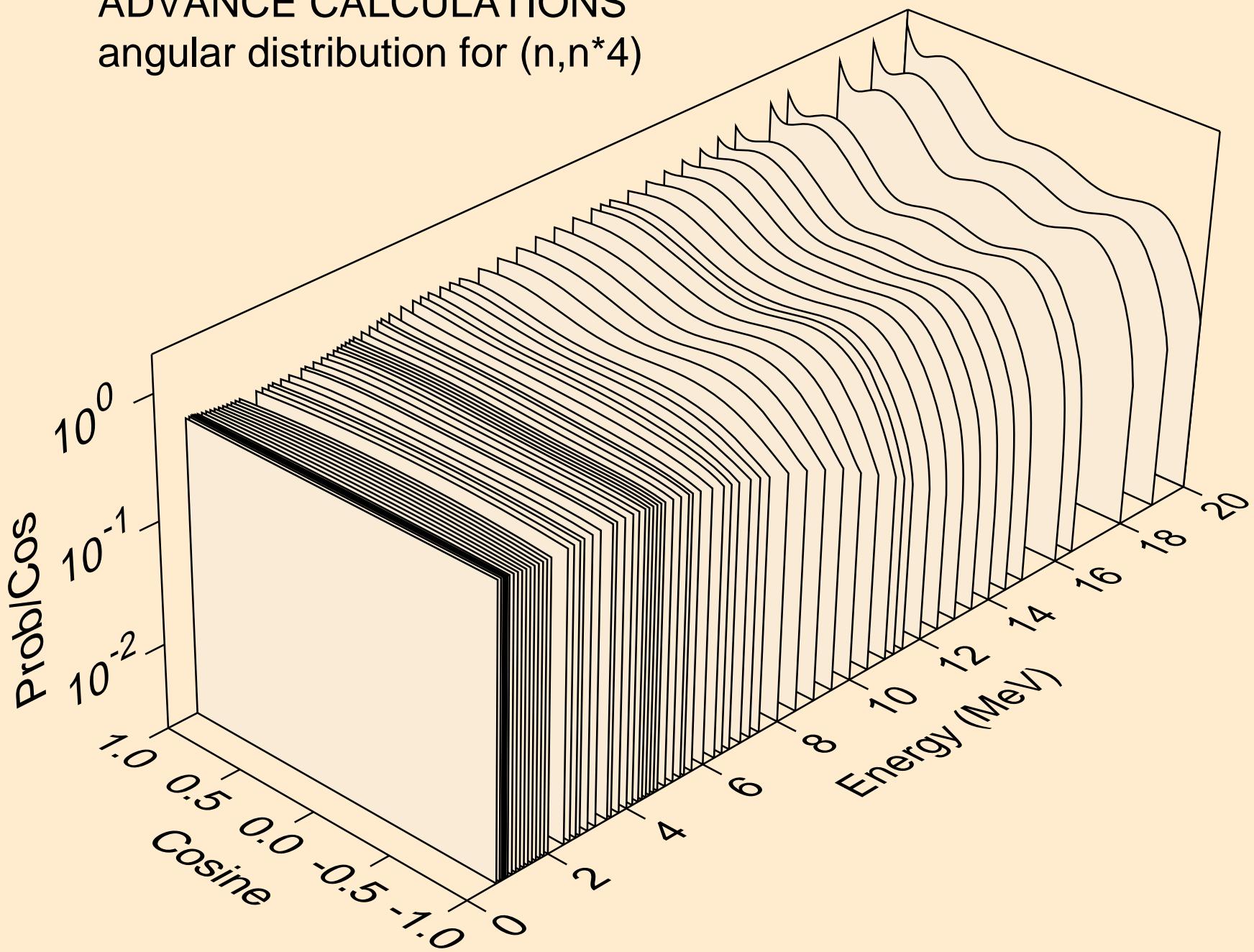
# ADVANCE CALCULATIONS

angular distribution for  $(n,n^*3)$



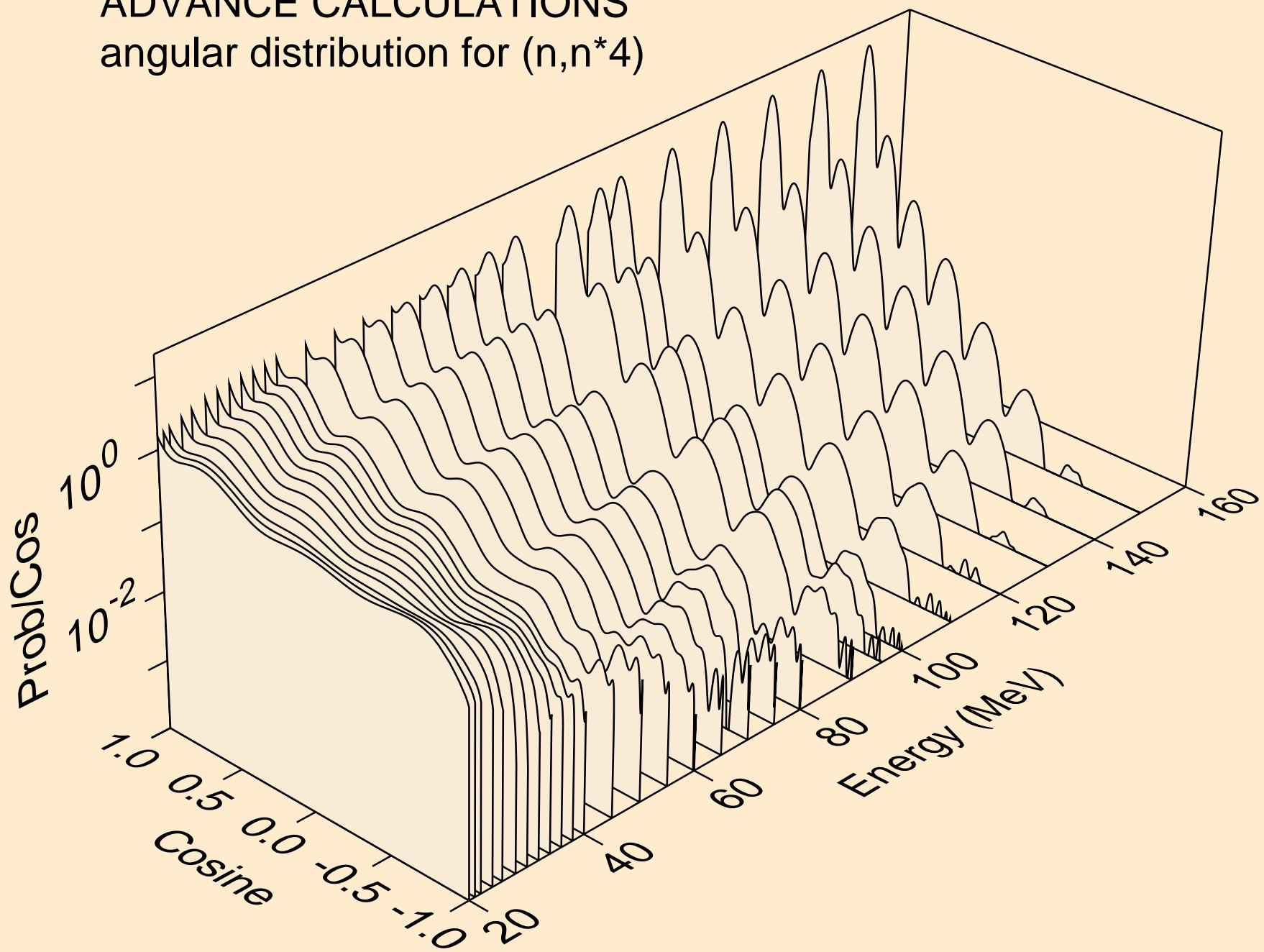
# ADVANCE CALCULATIONS

angular distribution for  $(n,n^*4)$



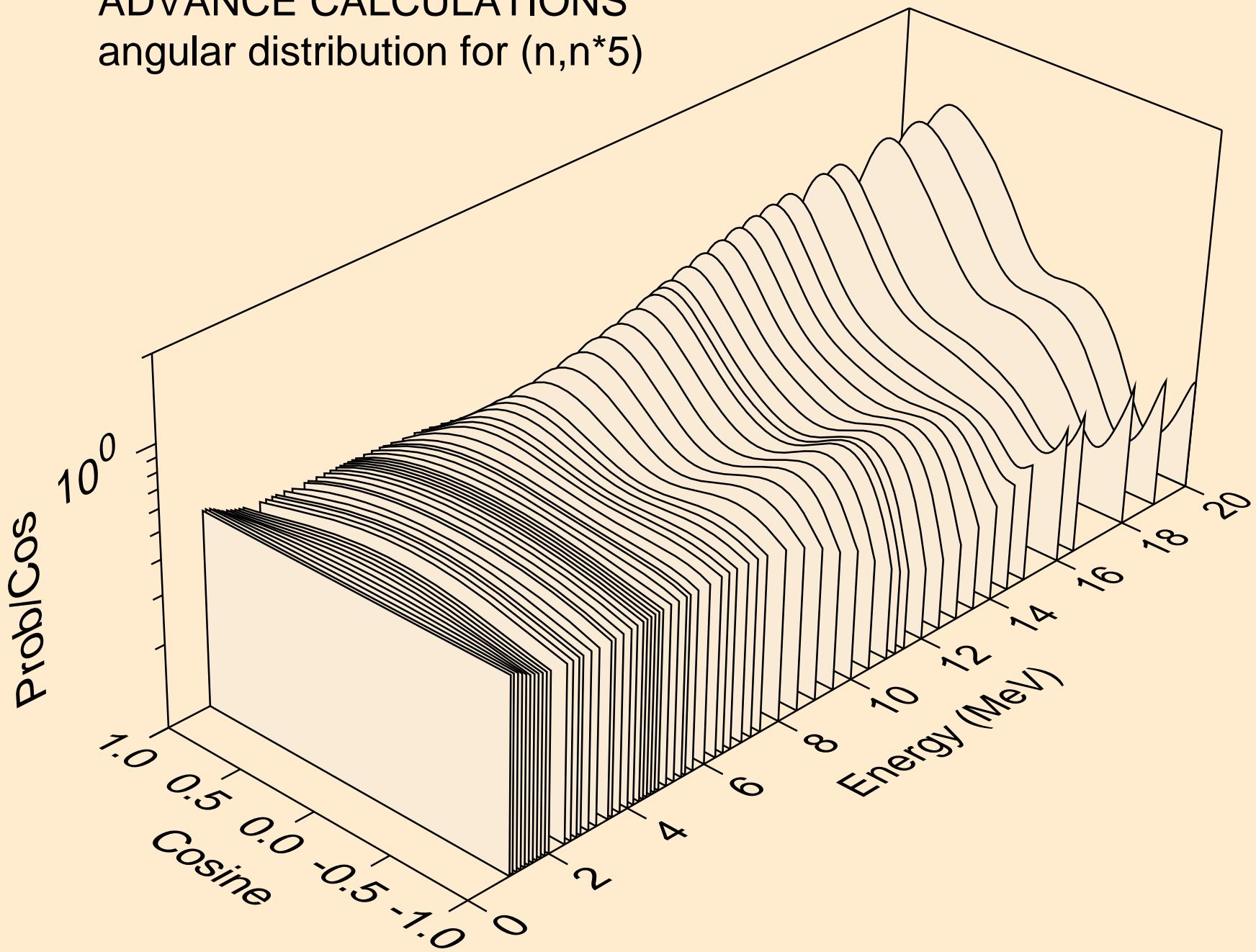
# ADVANCE CALCULATIONS

angular distribution for  $(n,n^*)4$



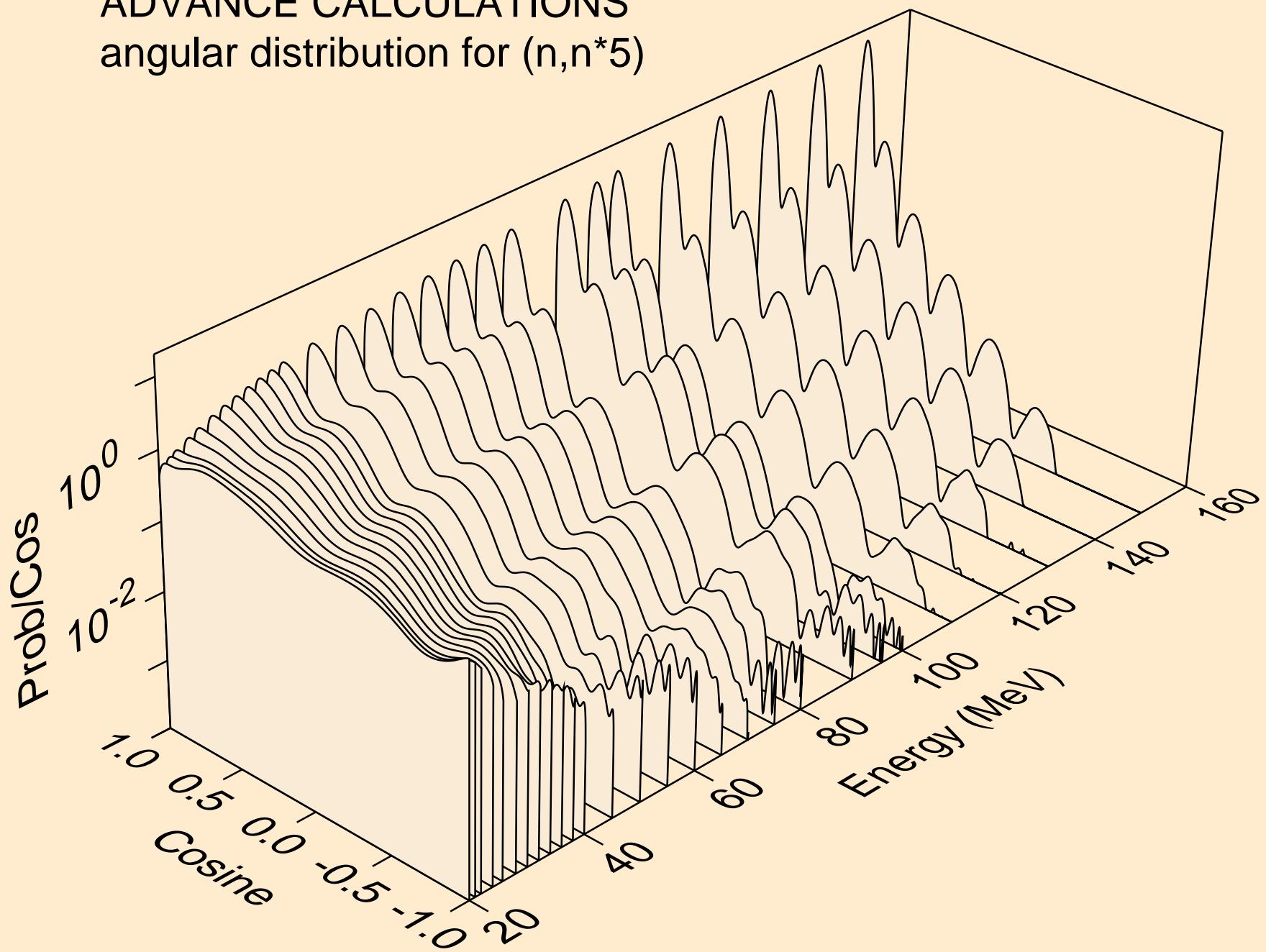
# ADVANCE CALCULATIONS

angular distribution for  $(n,n^*)^5$



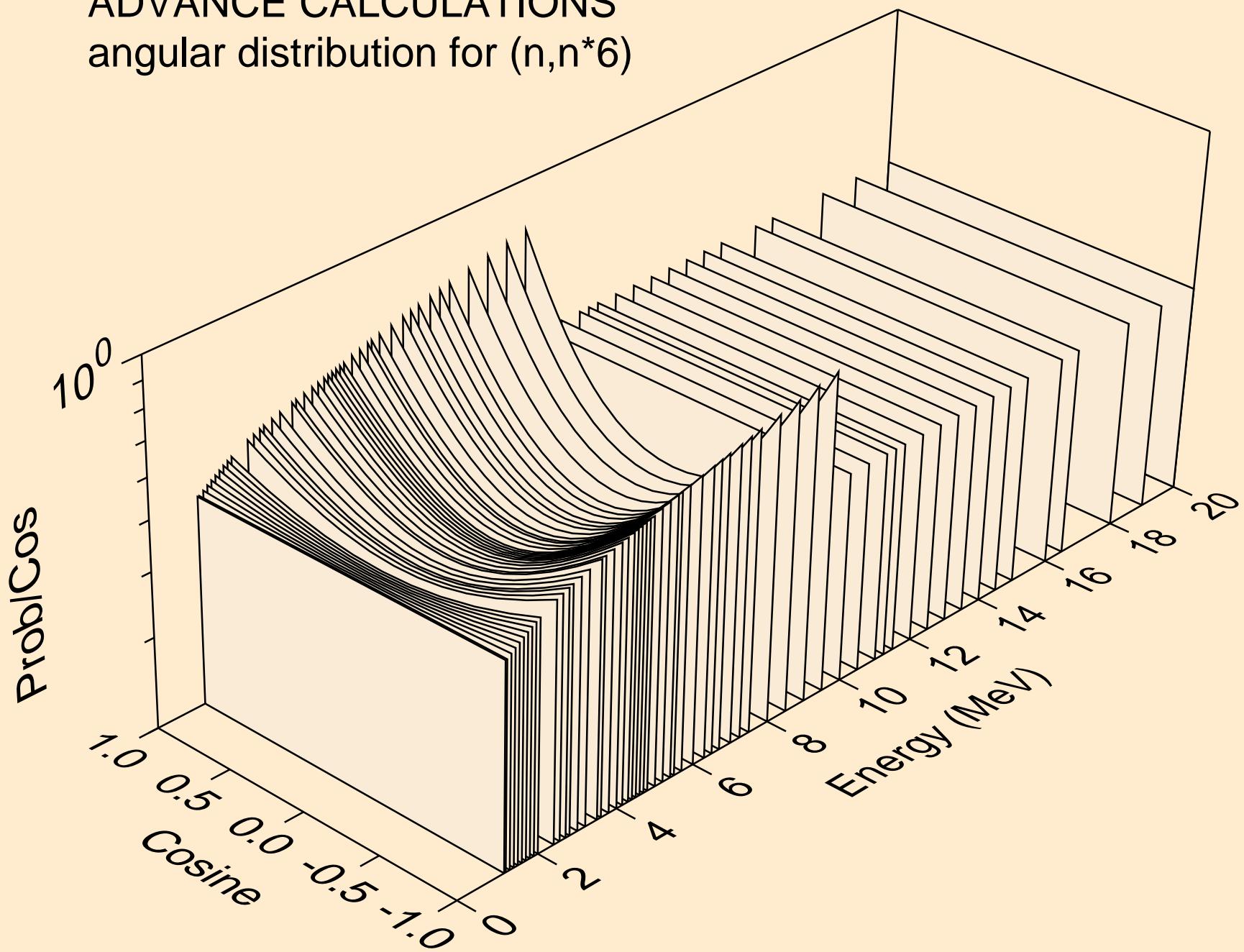
# ADVANCE CALCULATIONS

angular distribution for  $(n,n^*)^5$



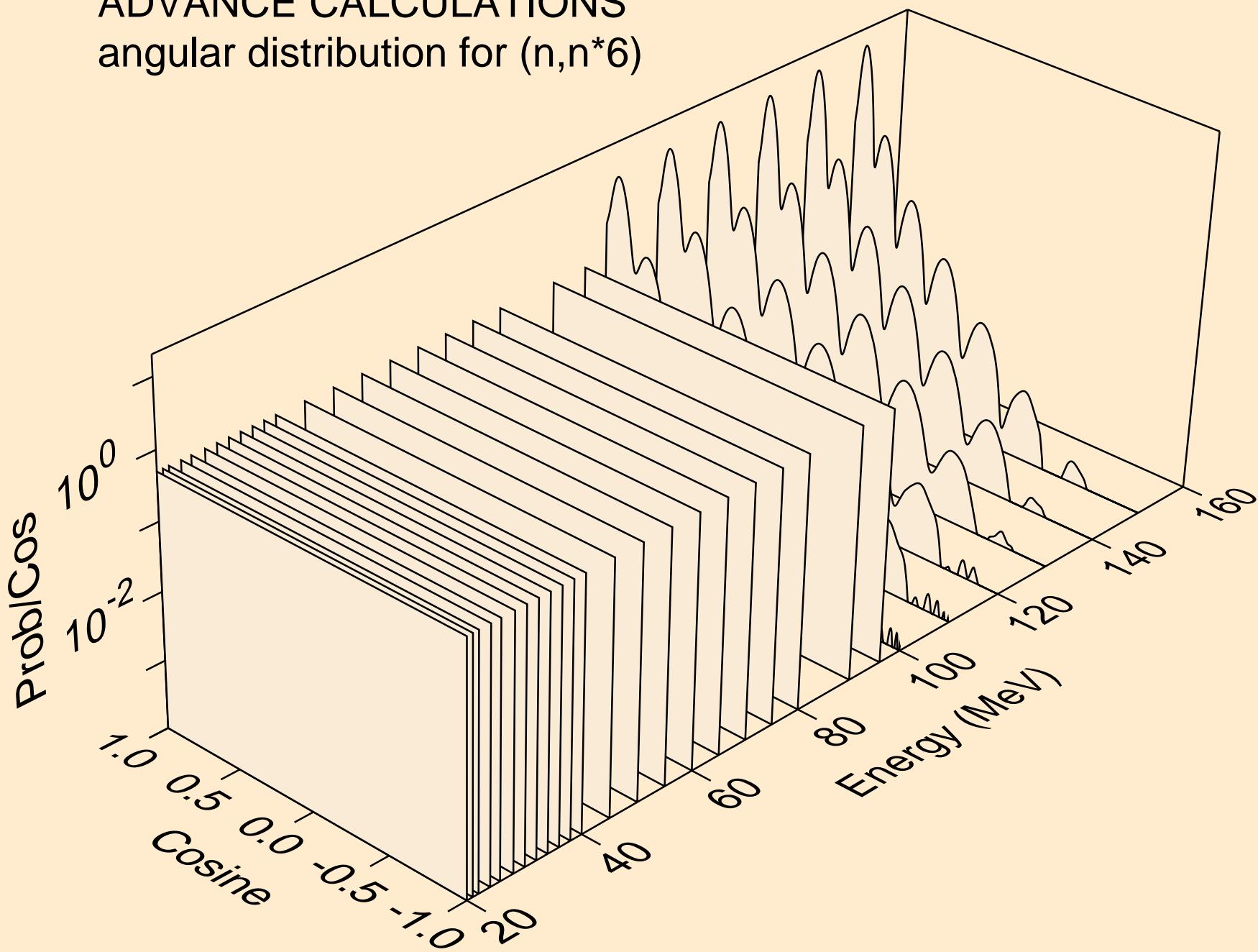
# ADVANCE CALCULATIONS

angular distribution for  $(n,n^*6)$



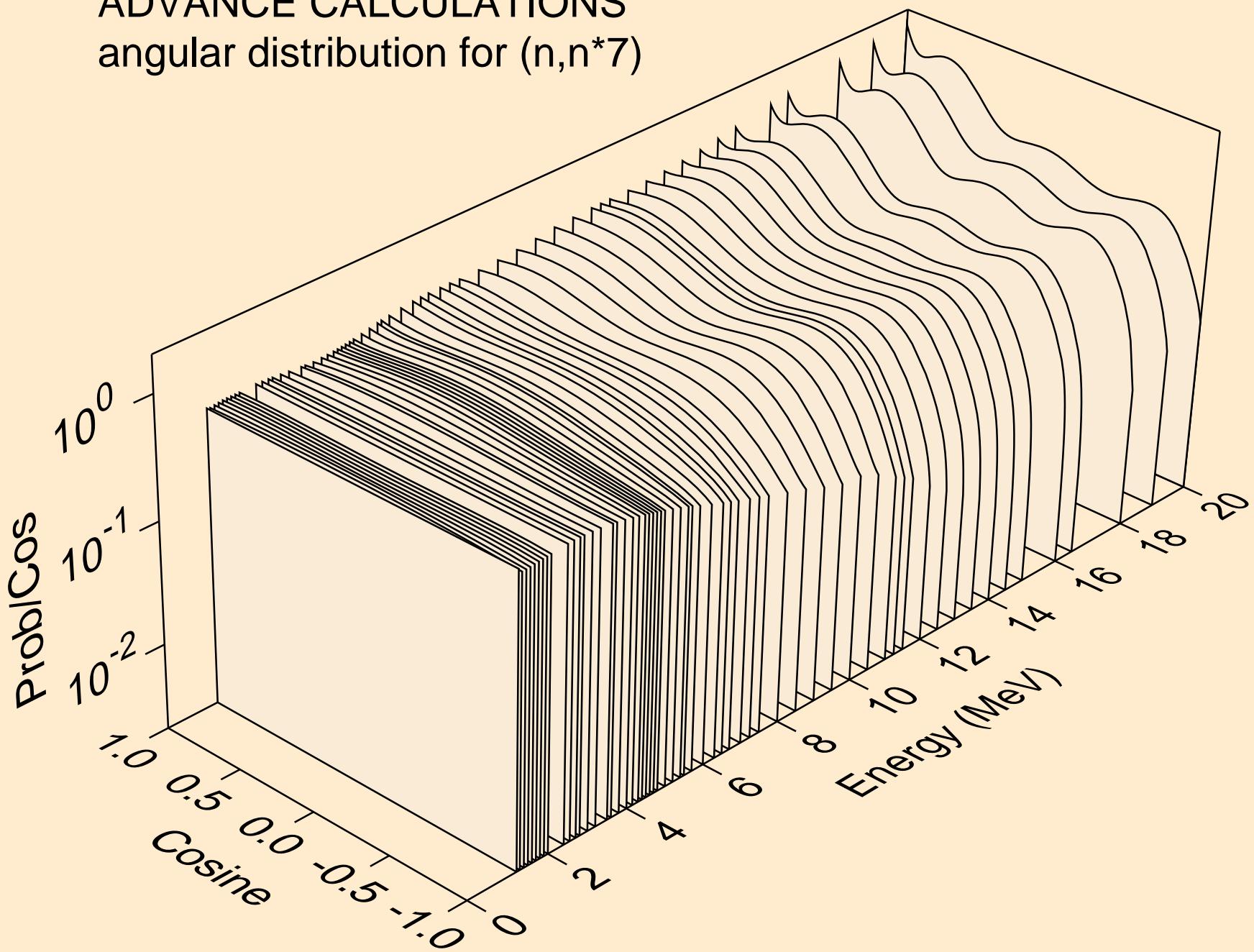
# ADVANCE CALCULATIONS

angular distribution for  $(n,n^*6)$



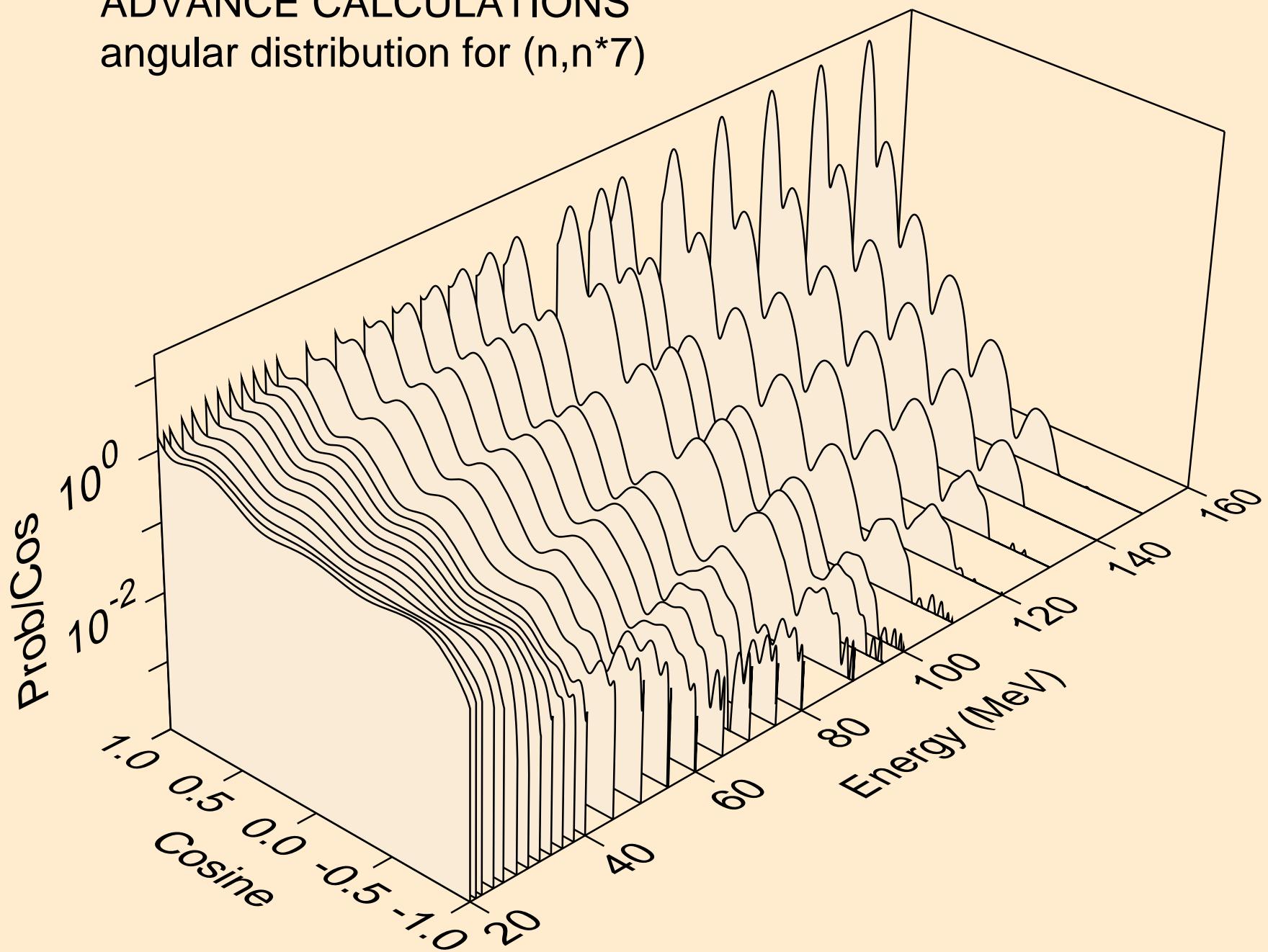
# ADVANCE CALCULATIONS

angular distribution for  $(n,n^*7)$



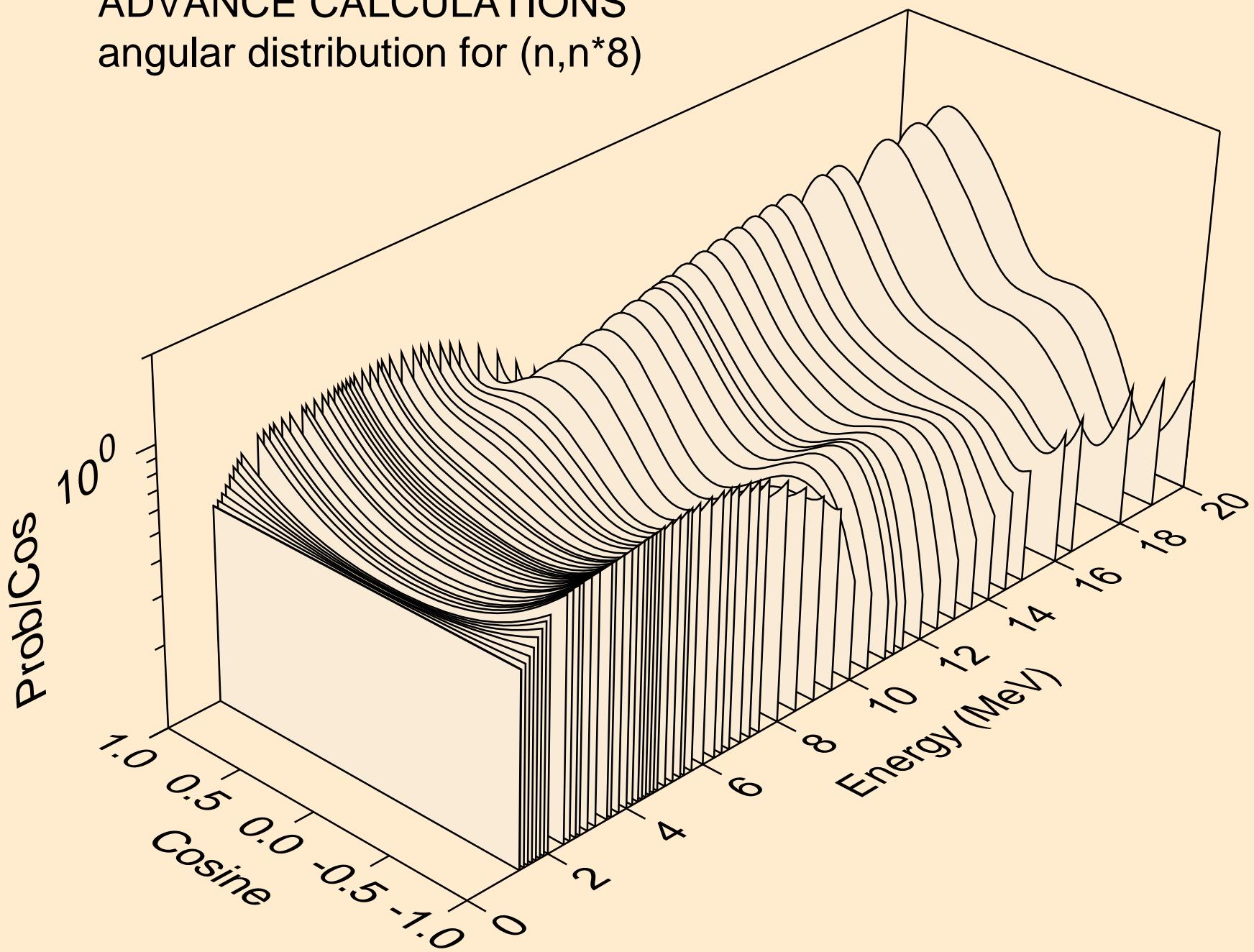
# ADVANCE CALCULATIONS

angular distribution for  $(n,n^*)^7$



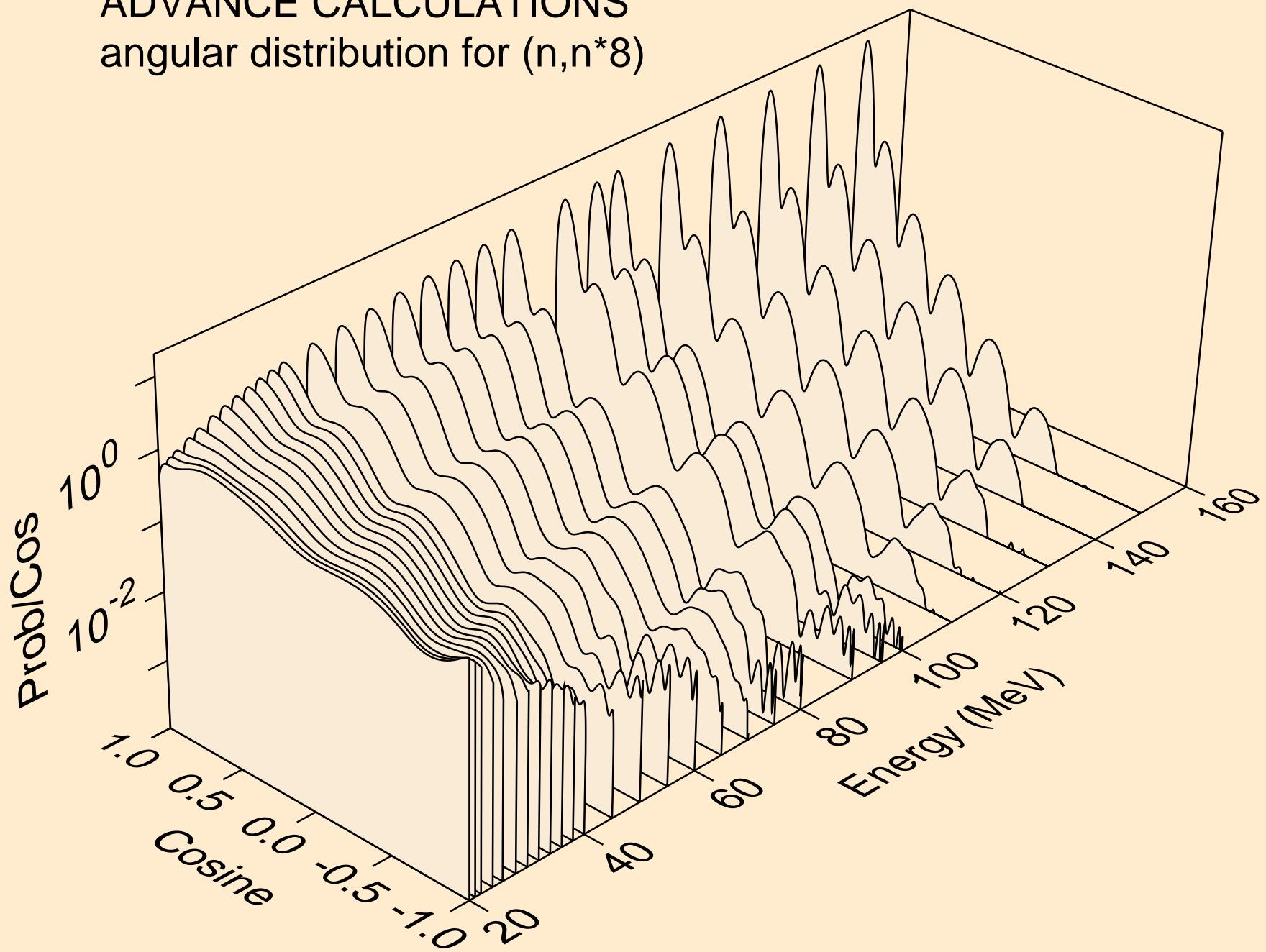
# ADVANCE CALCULATIONS

angular distribution for  $(n,n^*8)$



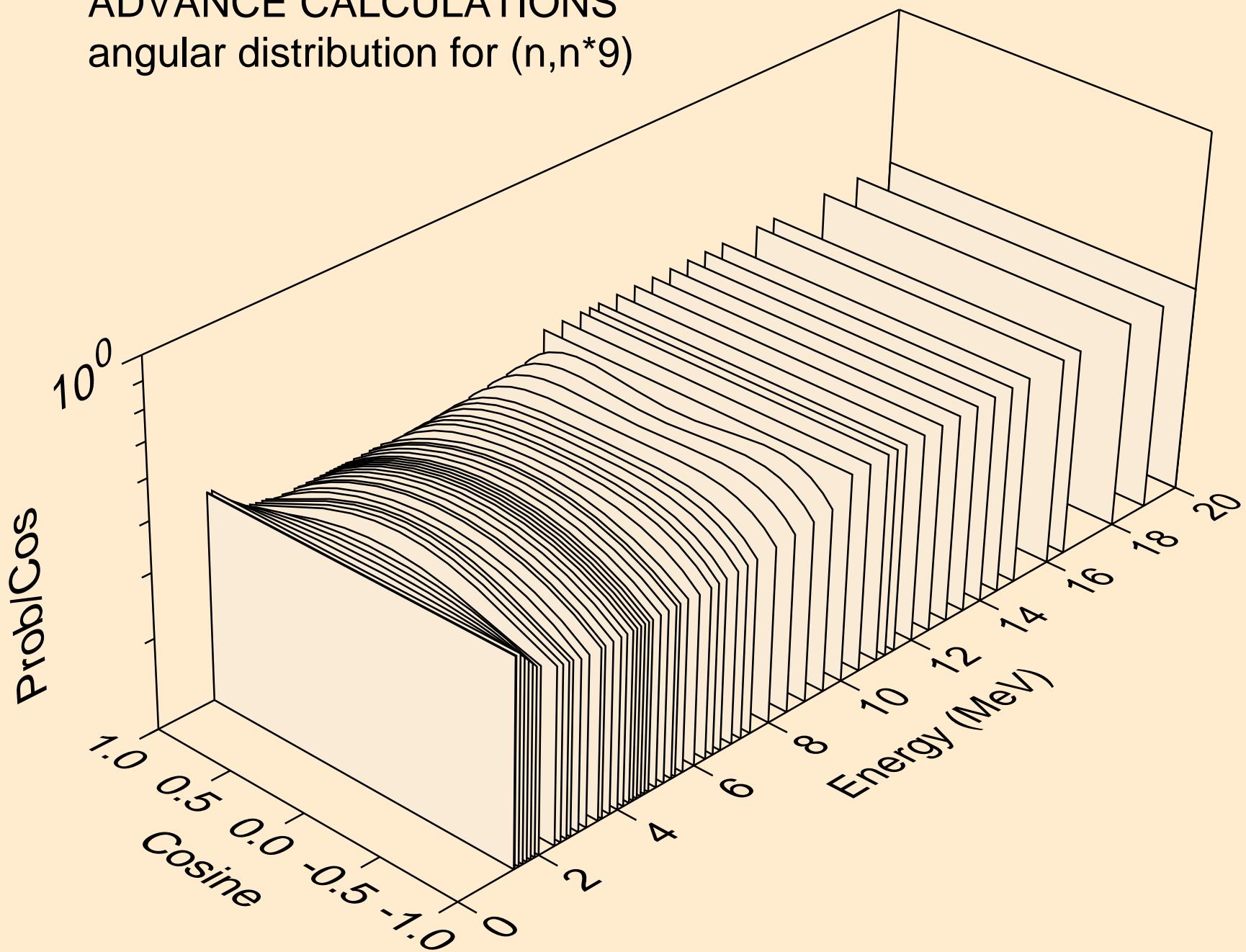
# ADVANCE CALCULATIONS

angular distribution for  $(n,n^*8)$



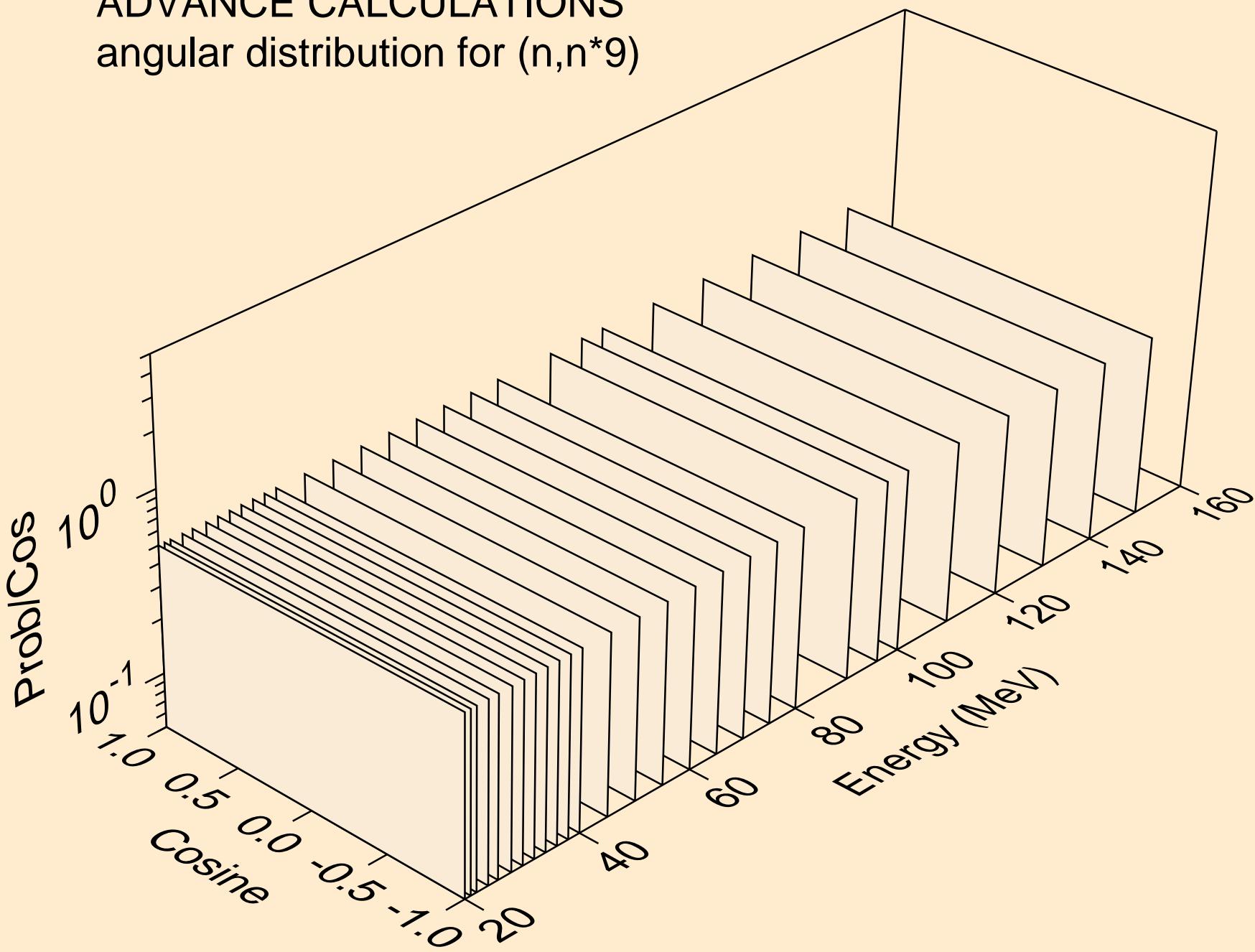
# ADVANCE CALCULATIONS

## angular distribution for (n,n\*9)



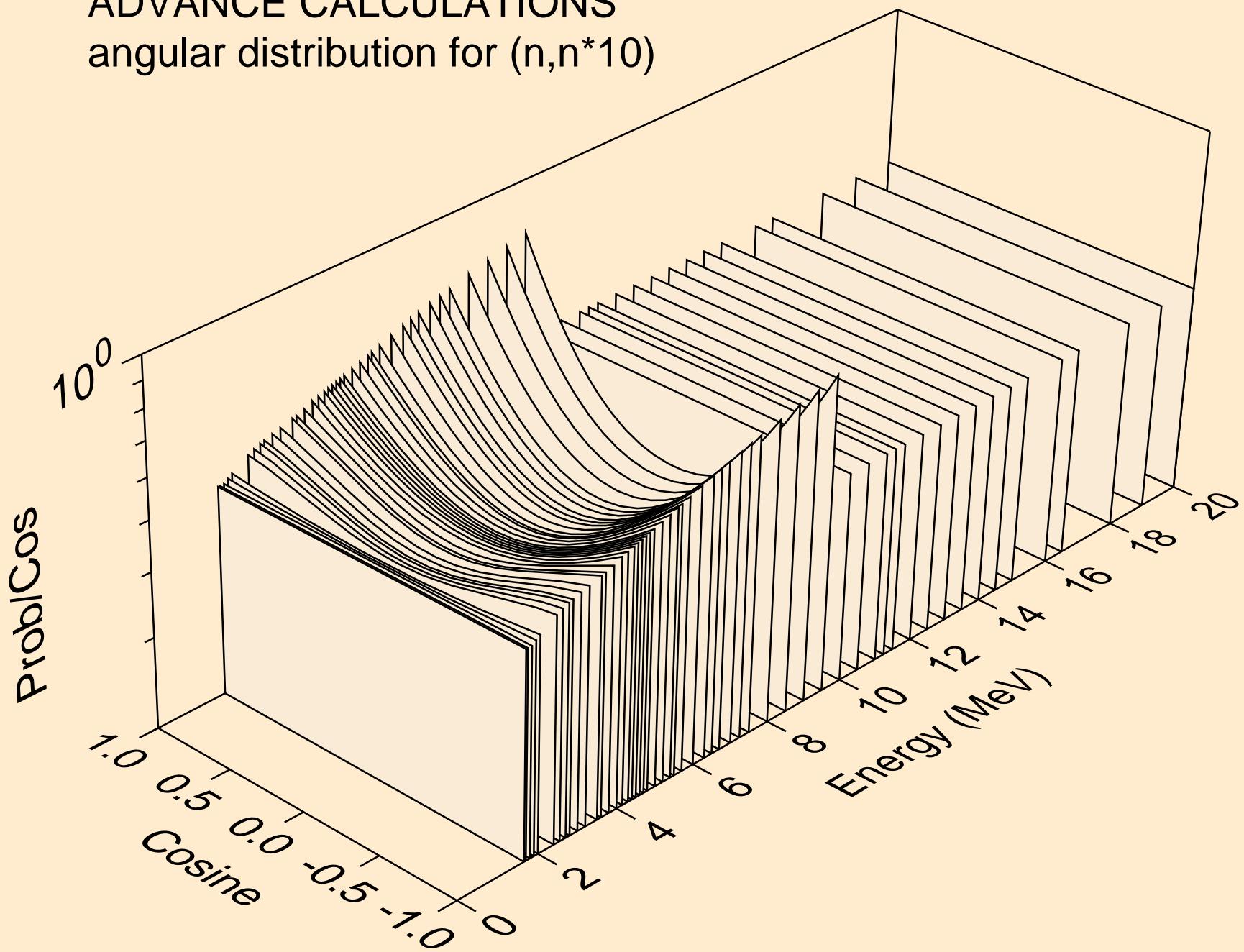
# ADVANCE CALCULATIONS

## angular distribution for (n,n\*9)



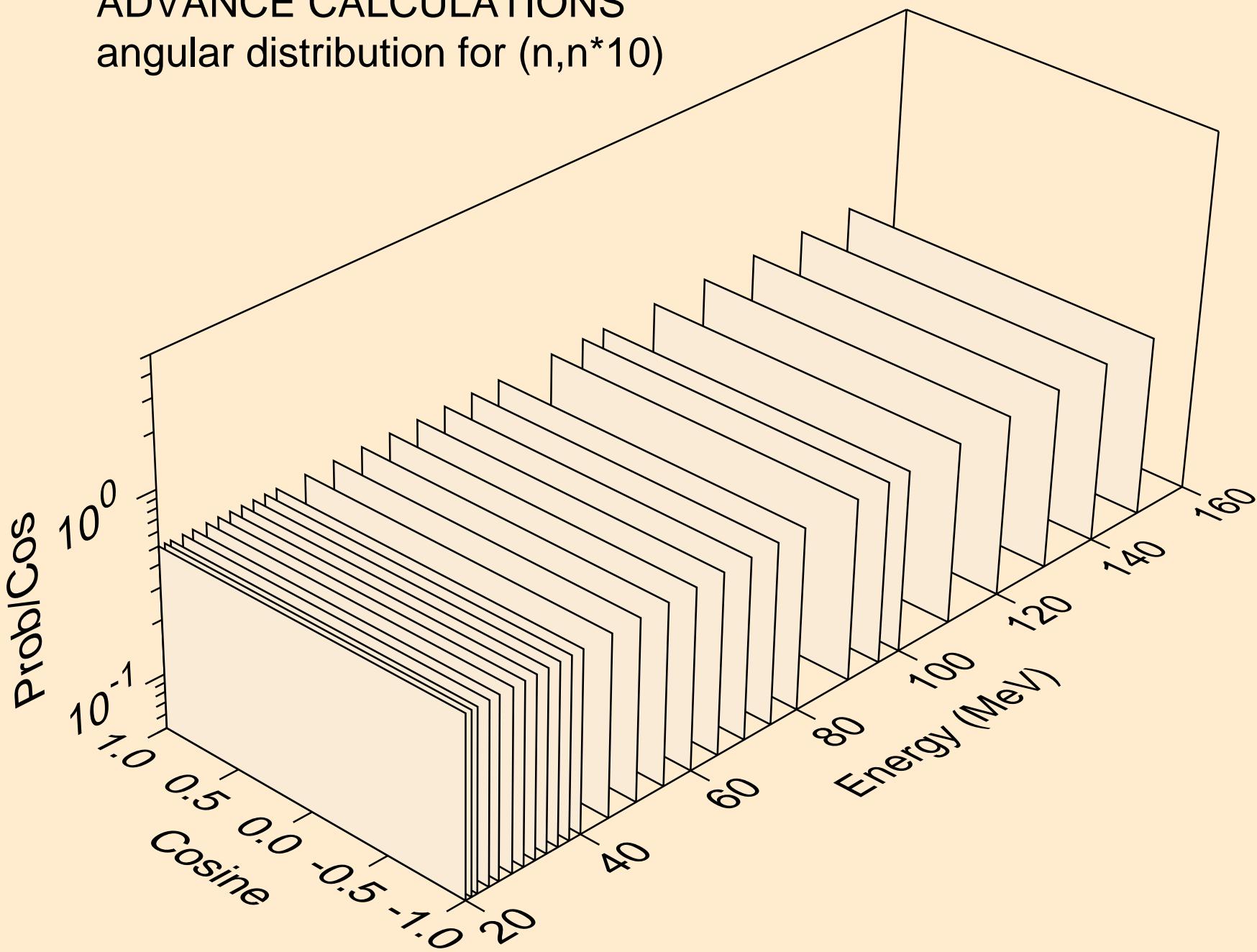
# ADVANCE CALCULATIONS

angular distribution for  $(n,n^*10)$



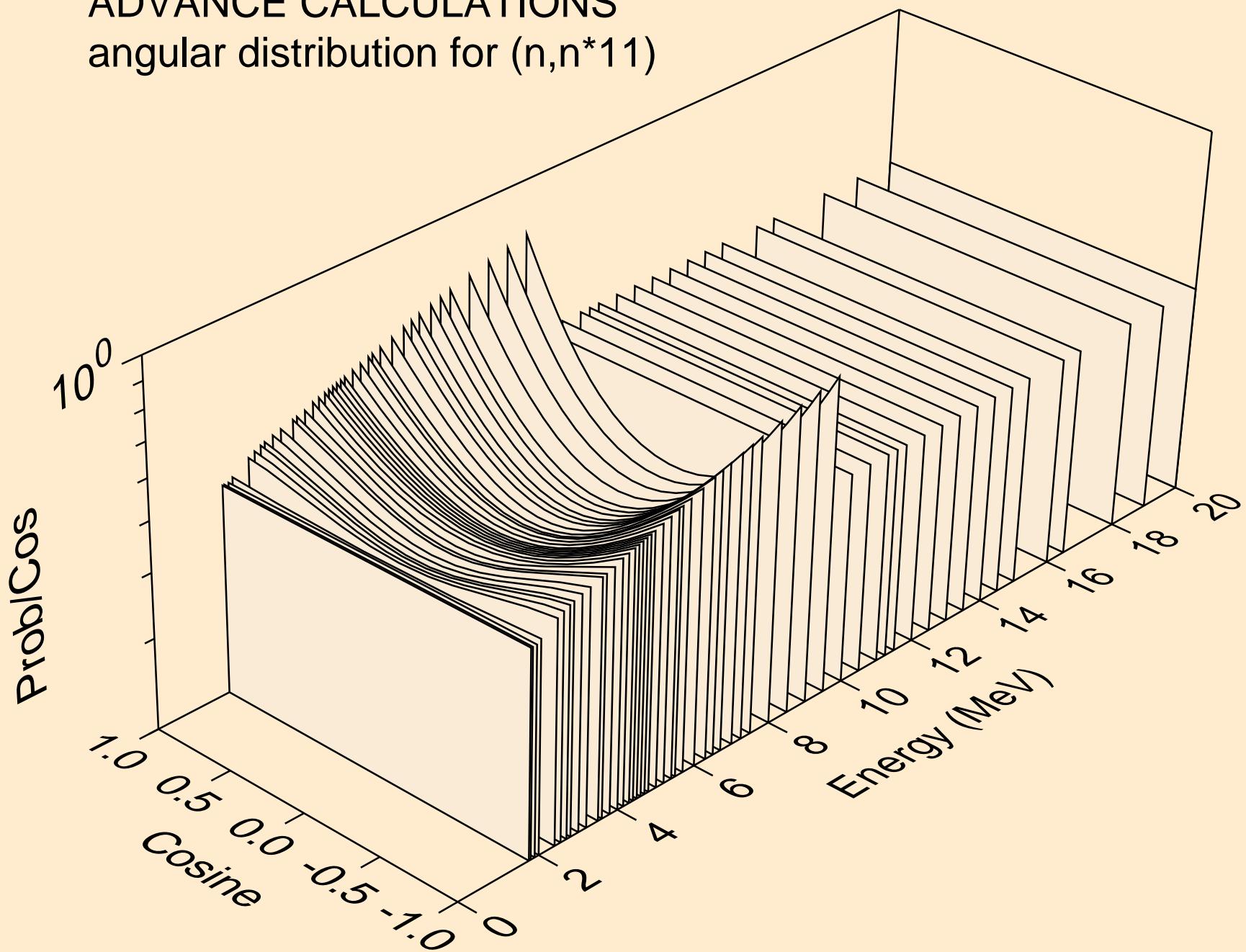
# ADVANCE CALCULATIONS

## angular distribution for (n,n\*10)



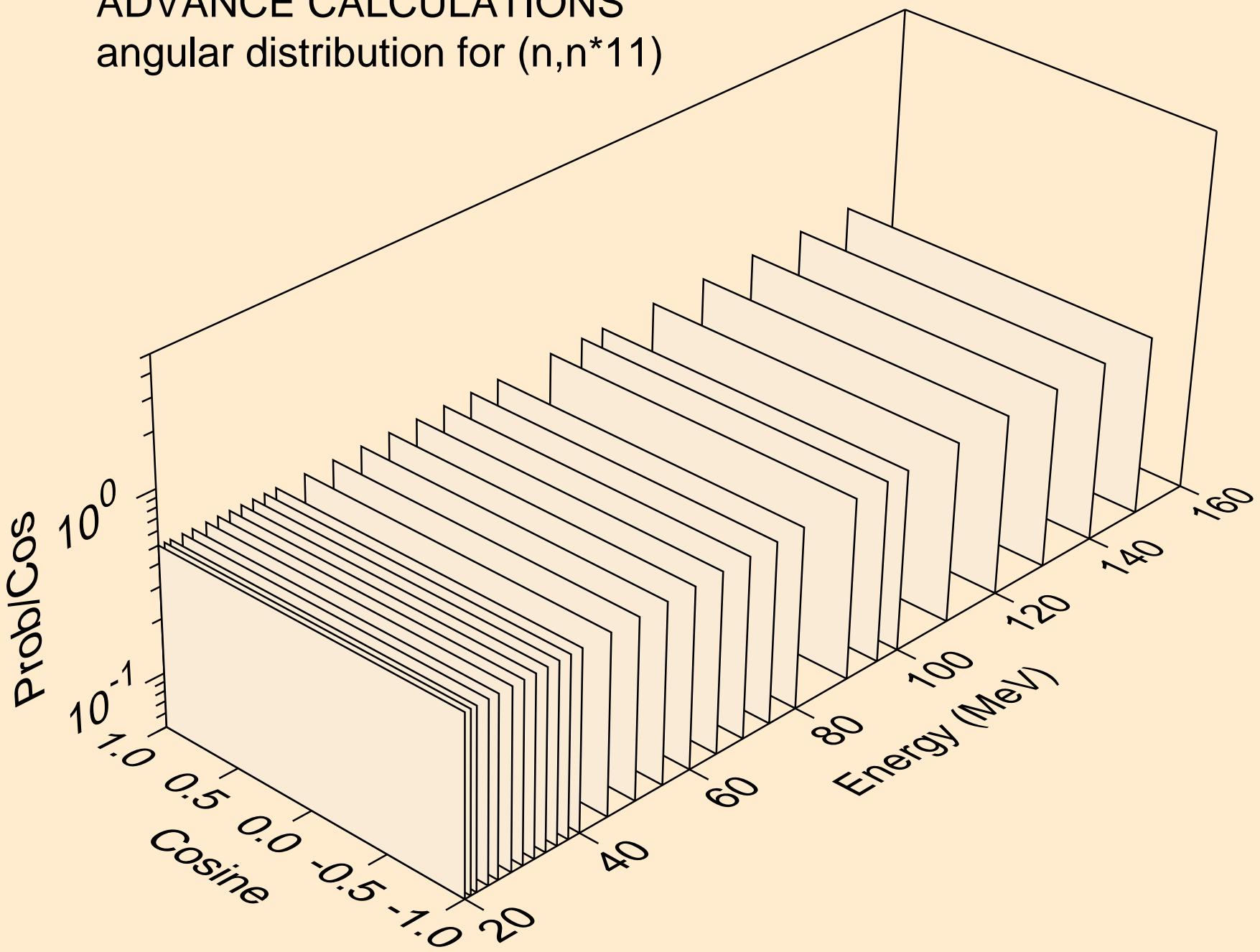
# ADVANCE CALCULATIONS

## angular distribution for (n,n\*11)



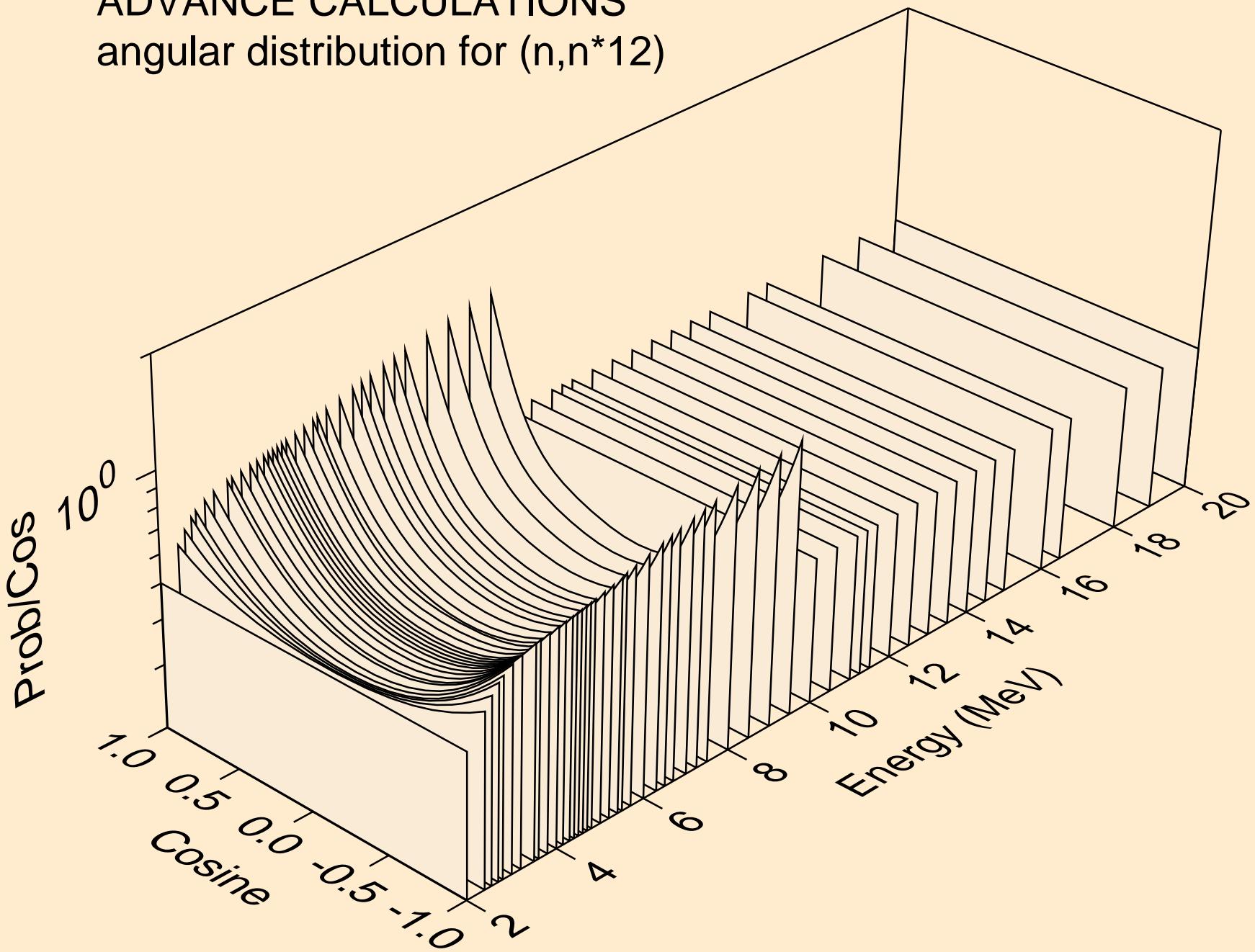
# ADVANCE CALCULATIONS

## angular distribution for (n,n\*11)



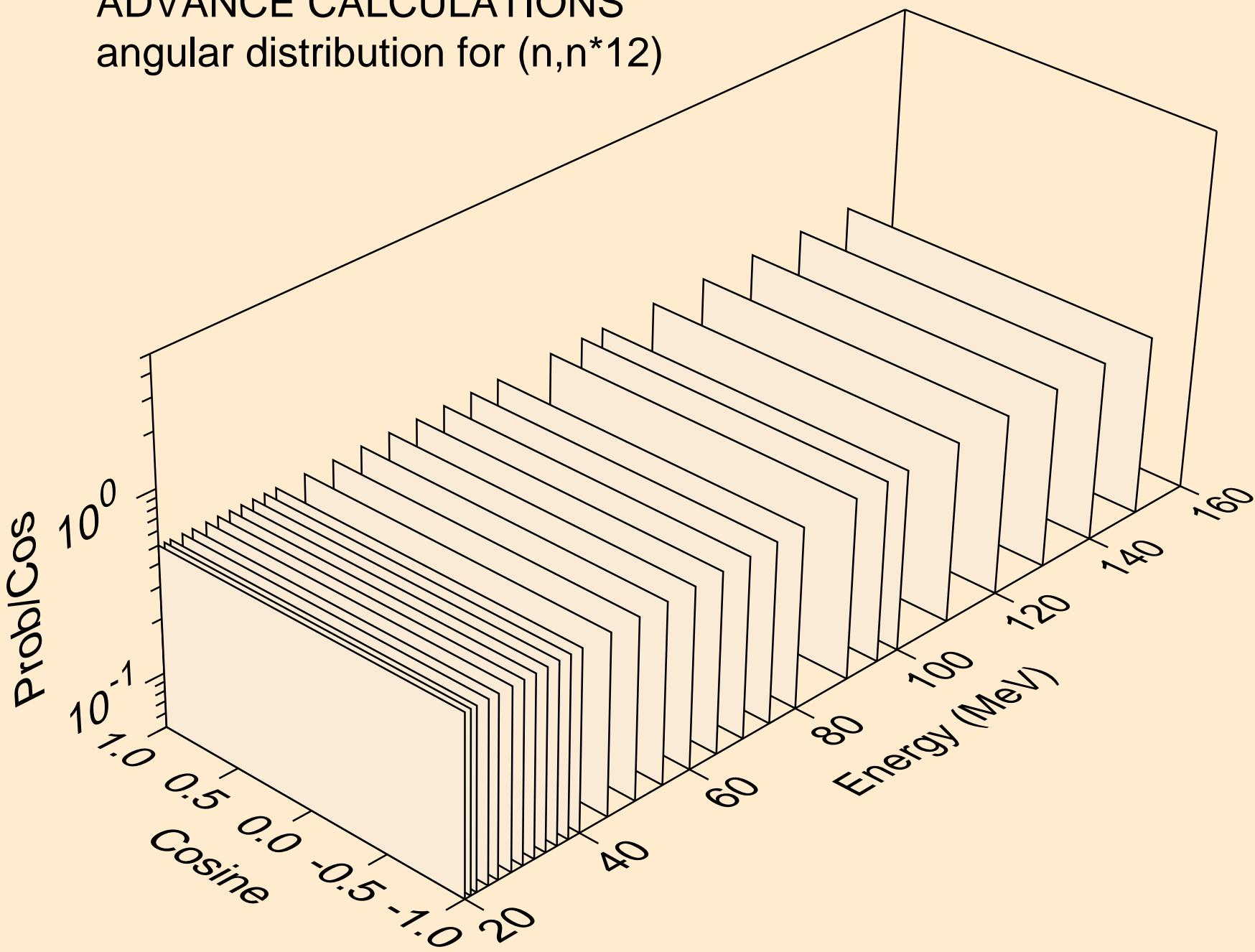
# ADVANCE CALCULATIONS

angular distribution for  $(n, n^* 12)$



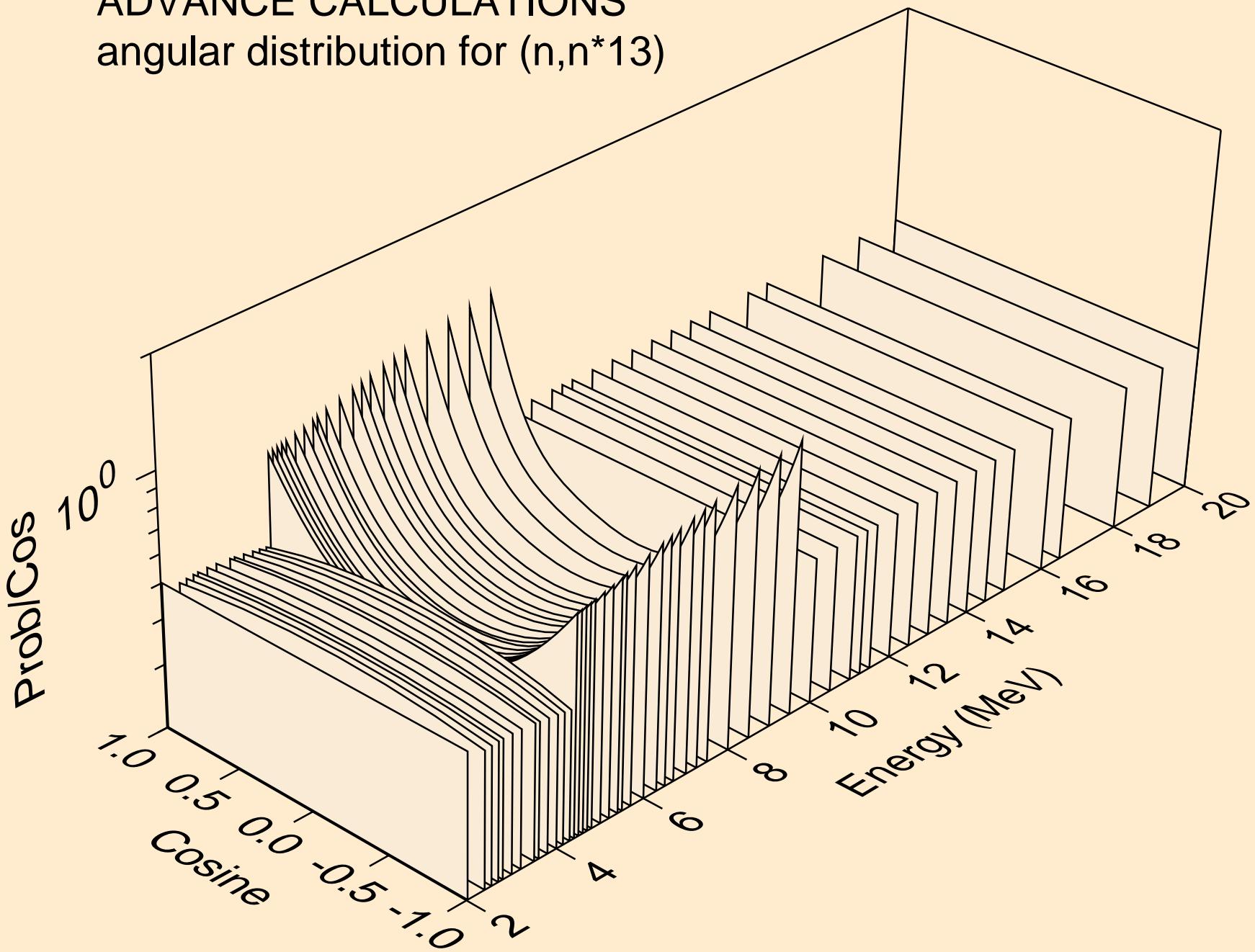
# ADVANCE CALCULATIONS

## angular distribution for (n,n\*12)



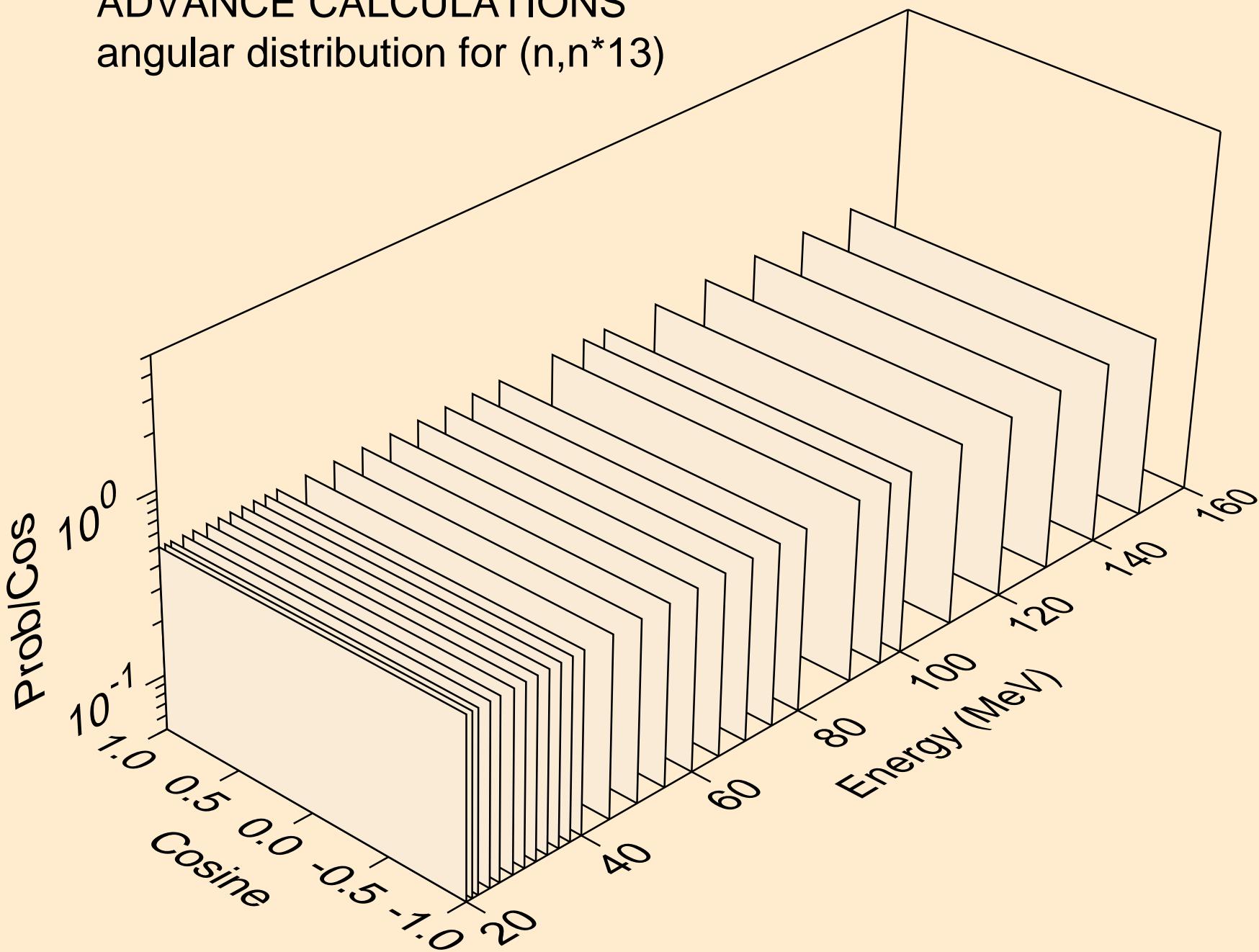
# ADVANCE CALCULATIONS

angular distribution for (n,n\*13)



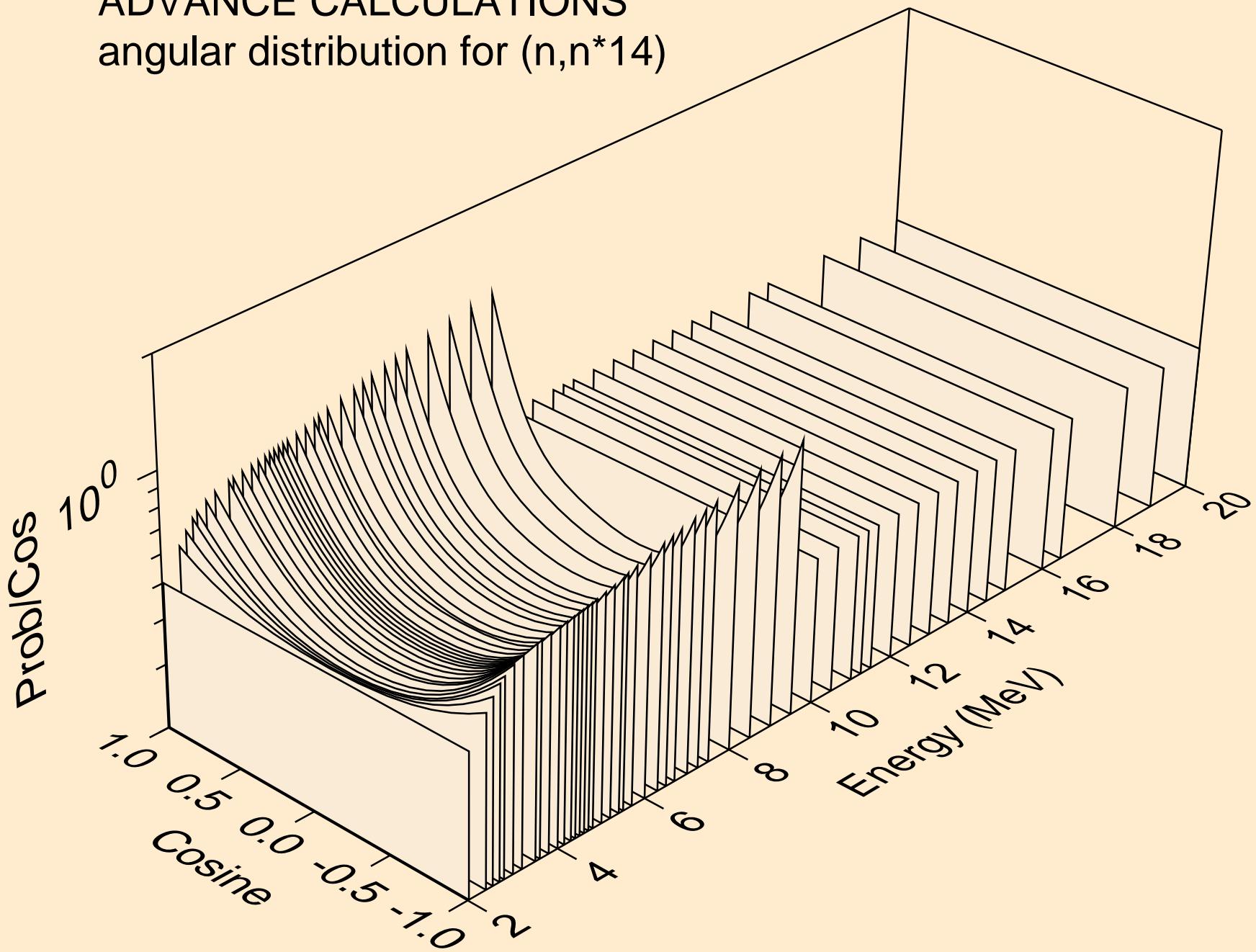
# ADVANCE CALCULATIONS

## angular distribution for (n,n\*13)



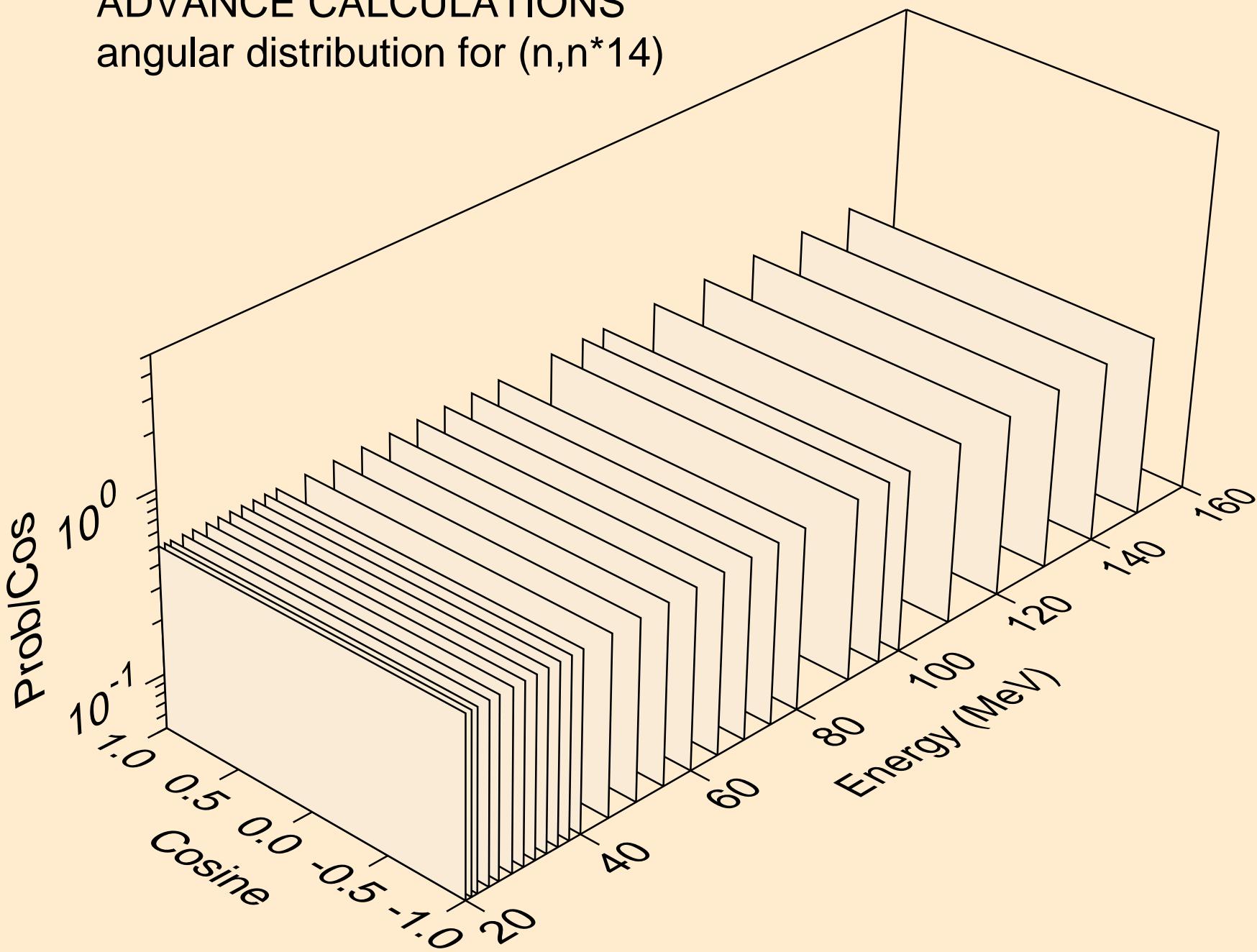
# ADVANCE CALCULATIONS

angular distribution for  $(n, n^* 14)$



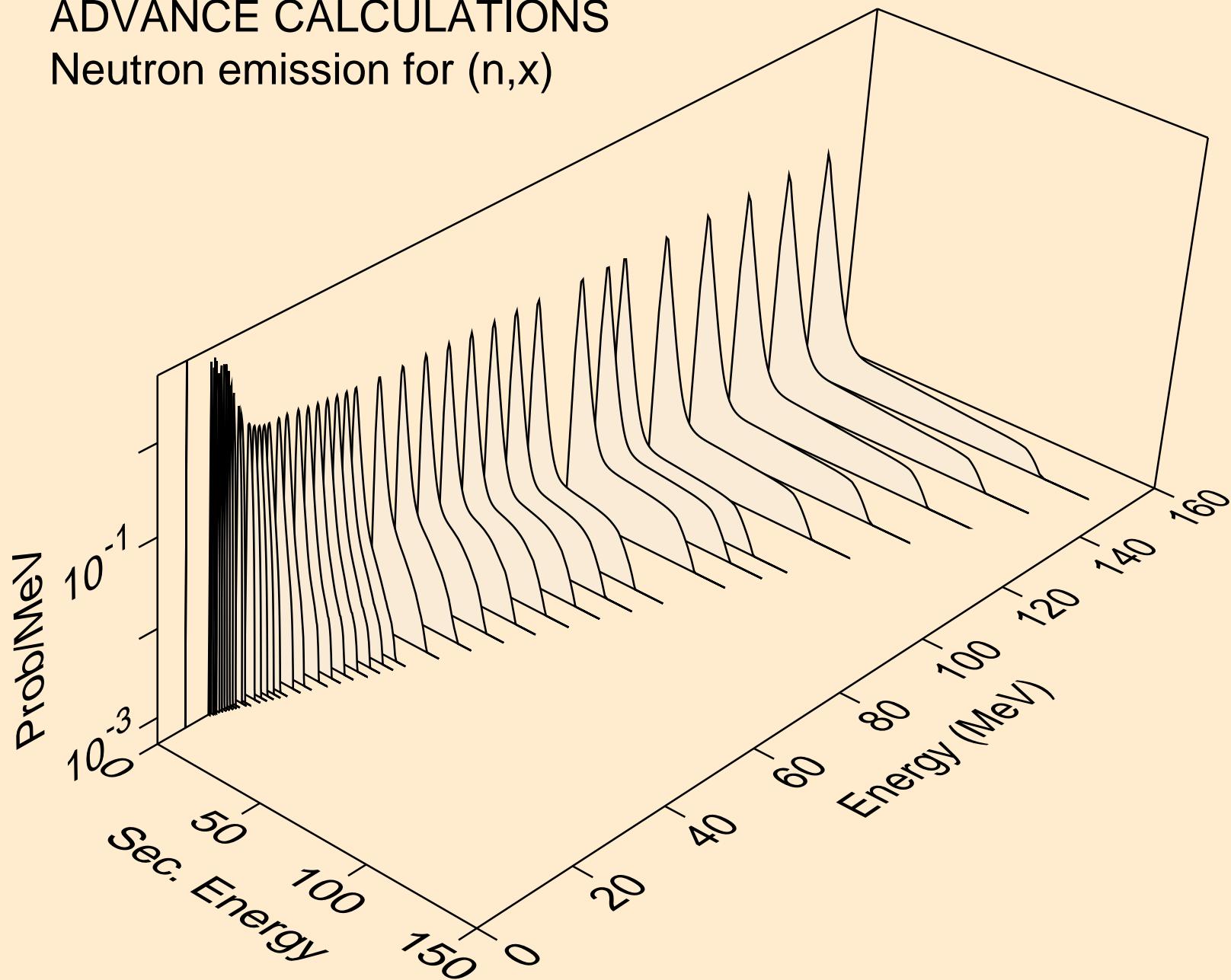
# ADVANCE CALCULATIONS

## angular distribution for (n,n\*14)



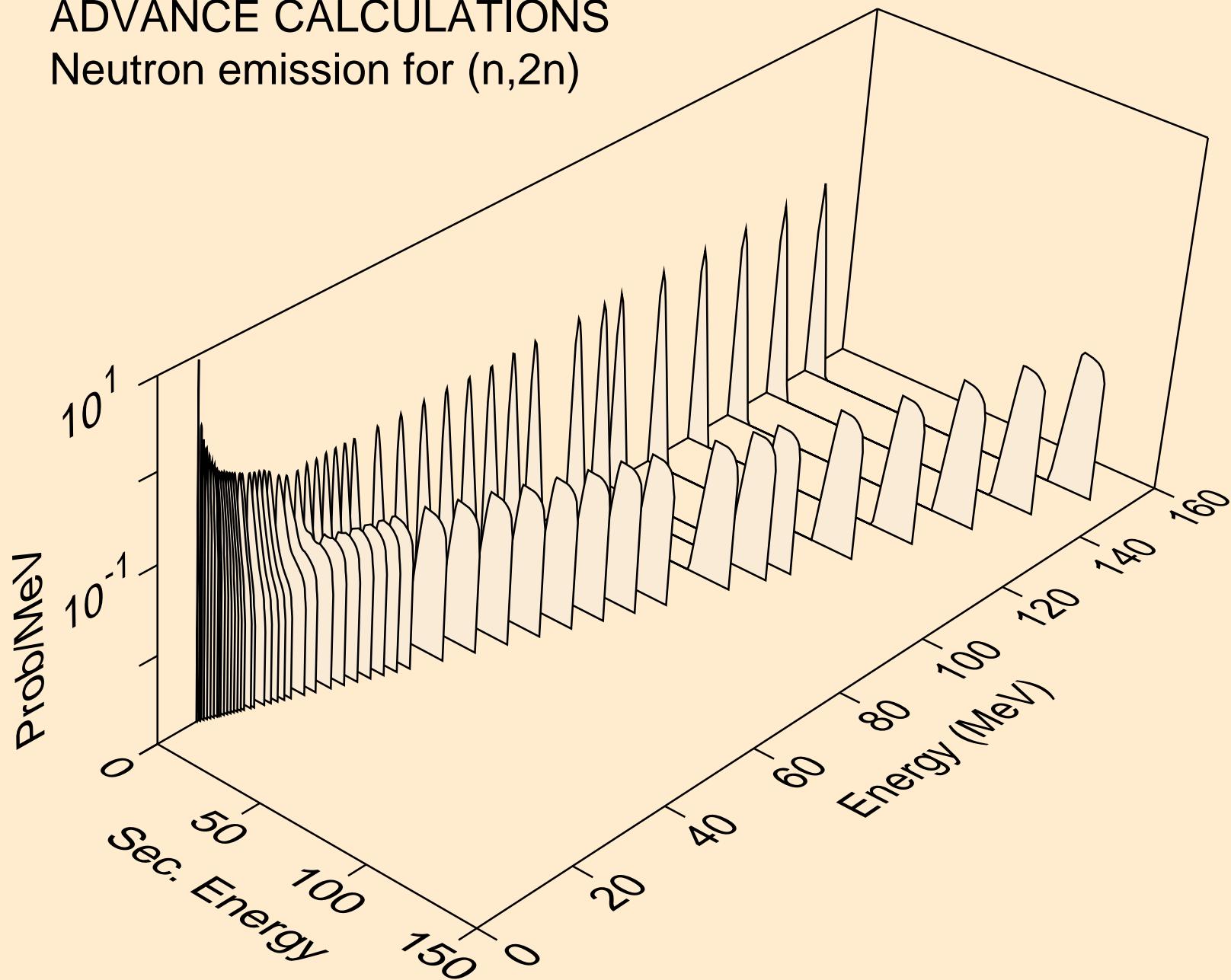
# ADVANCE CALCULATIONS

## Neutron emission for (n,x)



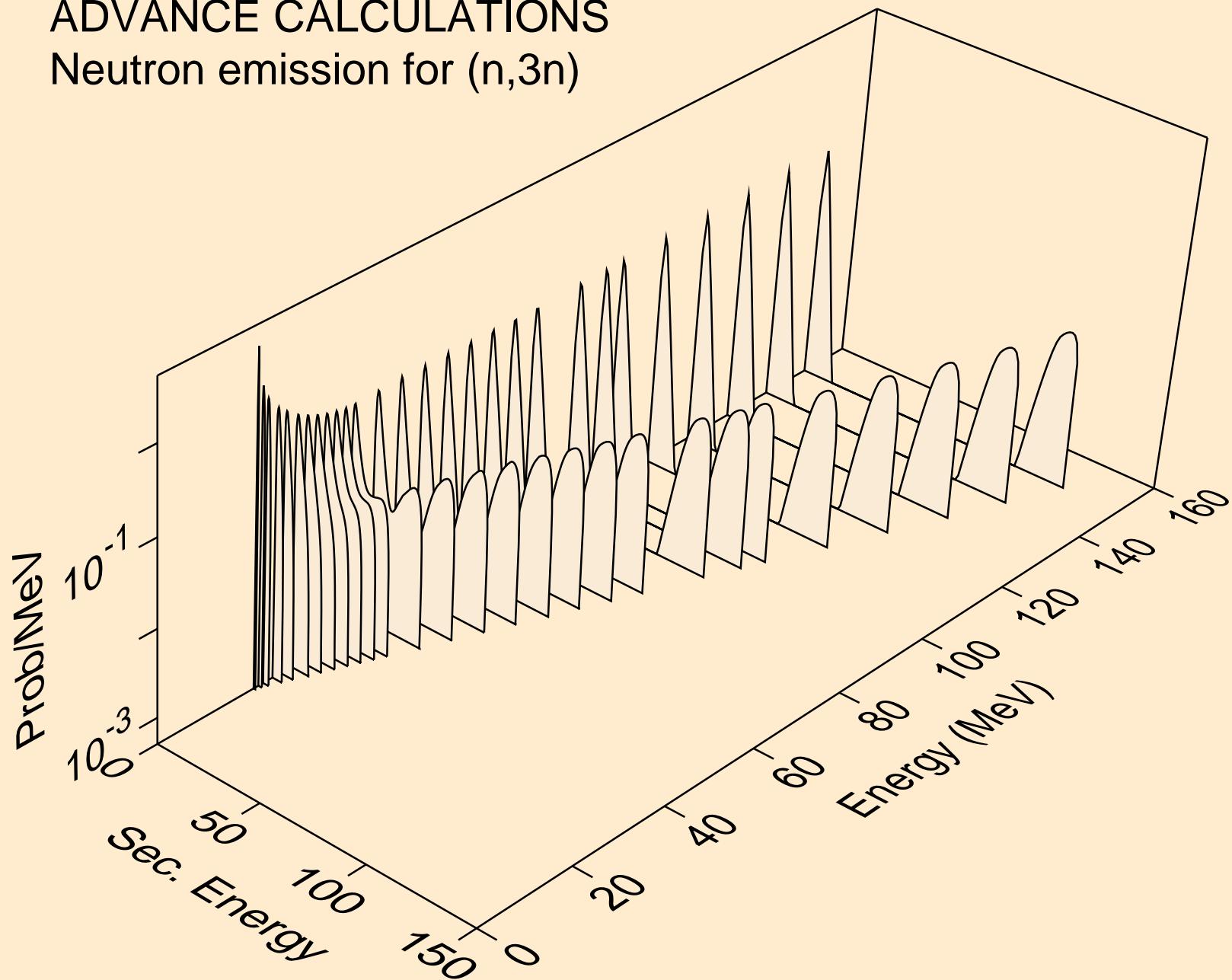
# ADVANCE CALCULATIONS

## Neutron emission for (n,2n)



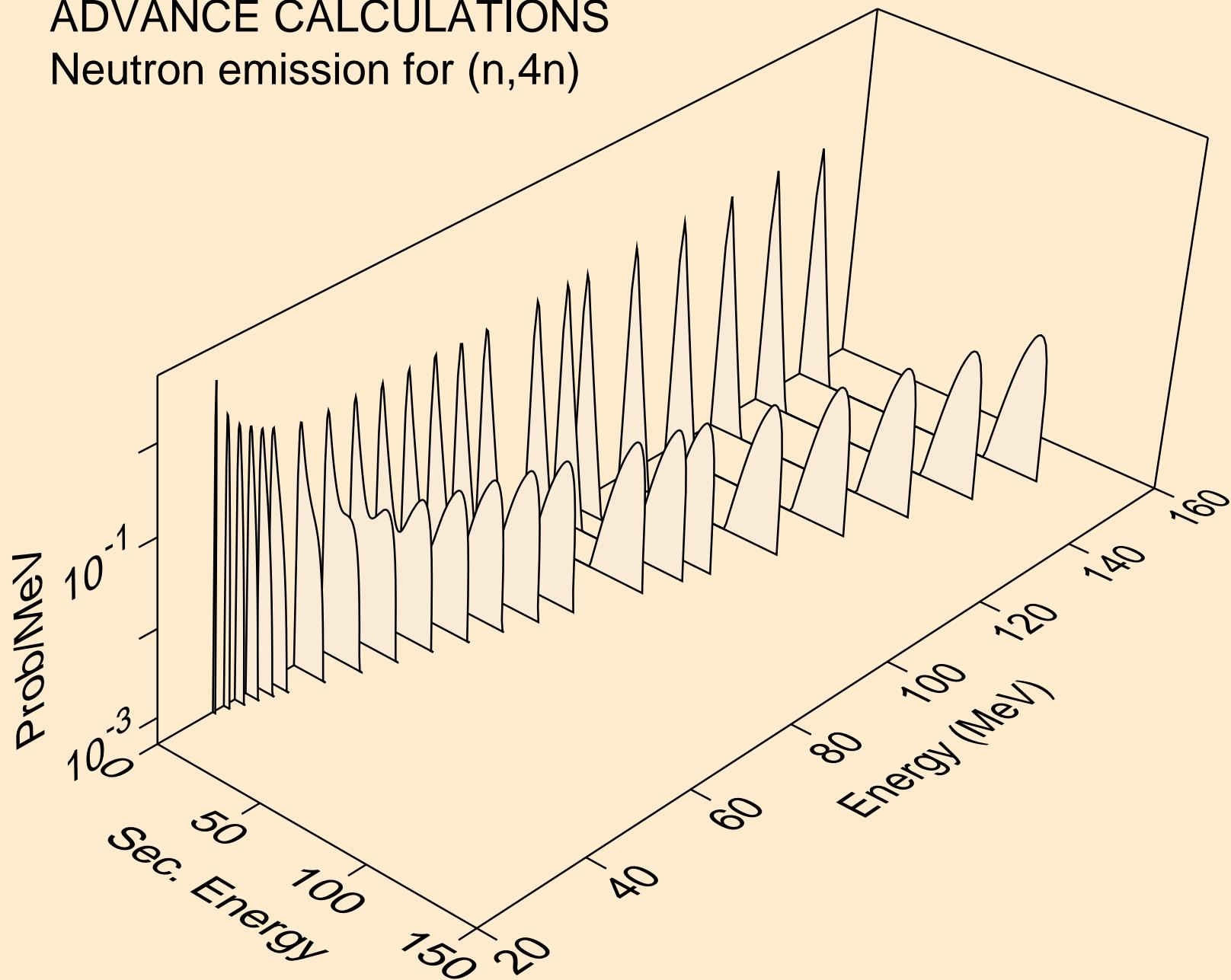
# ADVANCE CALCULATIONS

## Neutron emission for (n,3n)



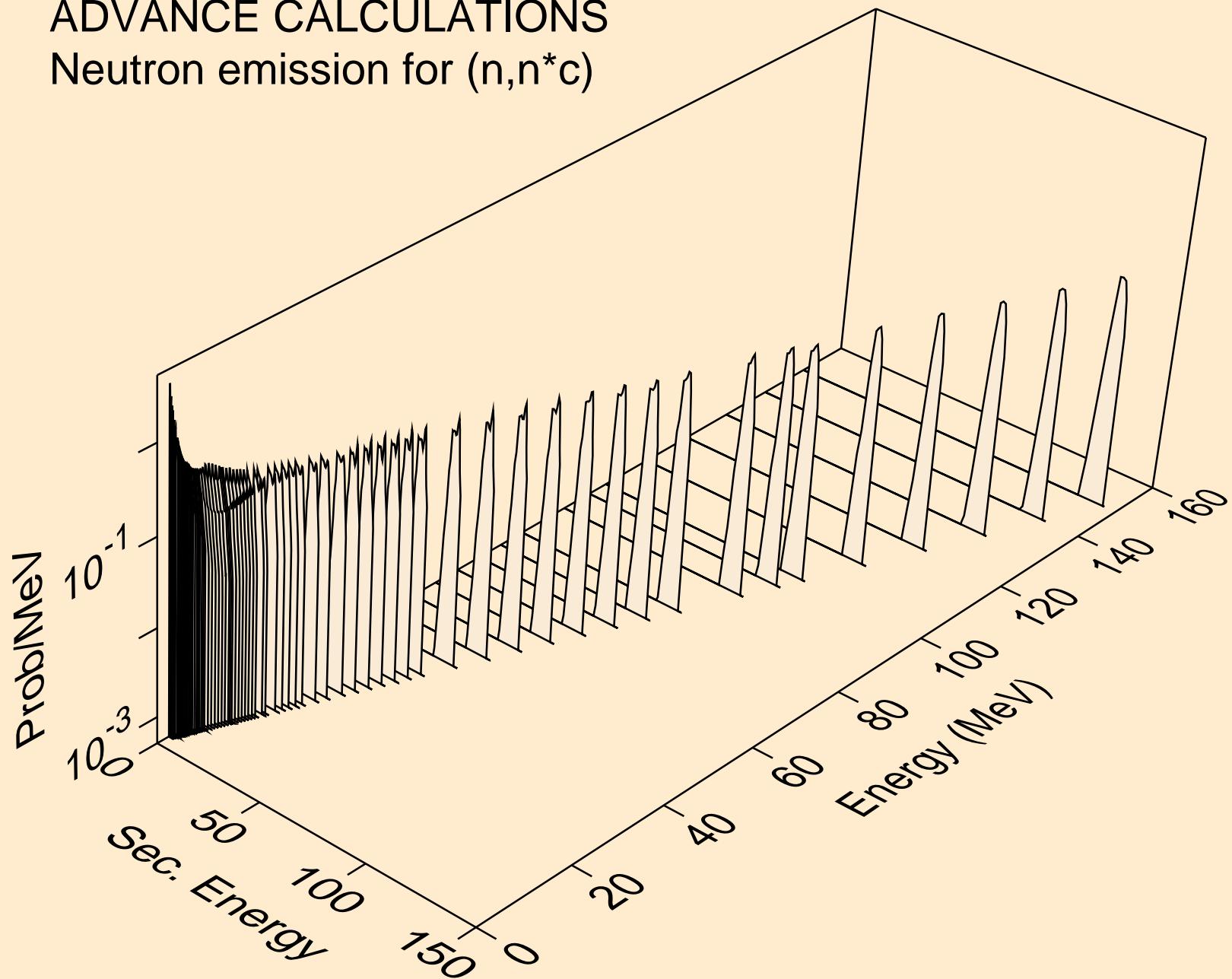
# ADVANCE CALCULATIONS

## Neutron emission for (n,4n)



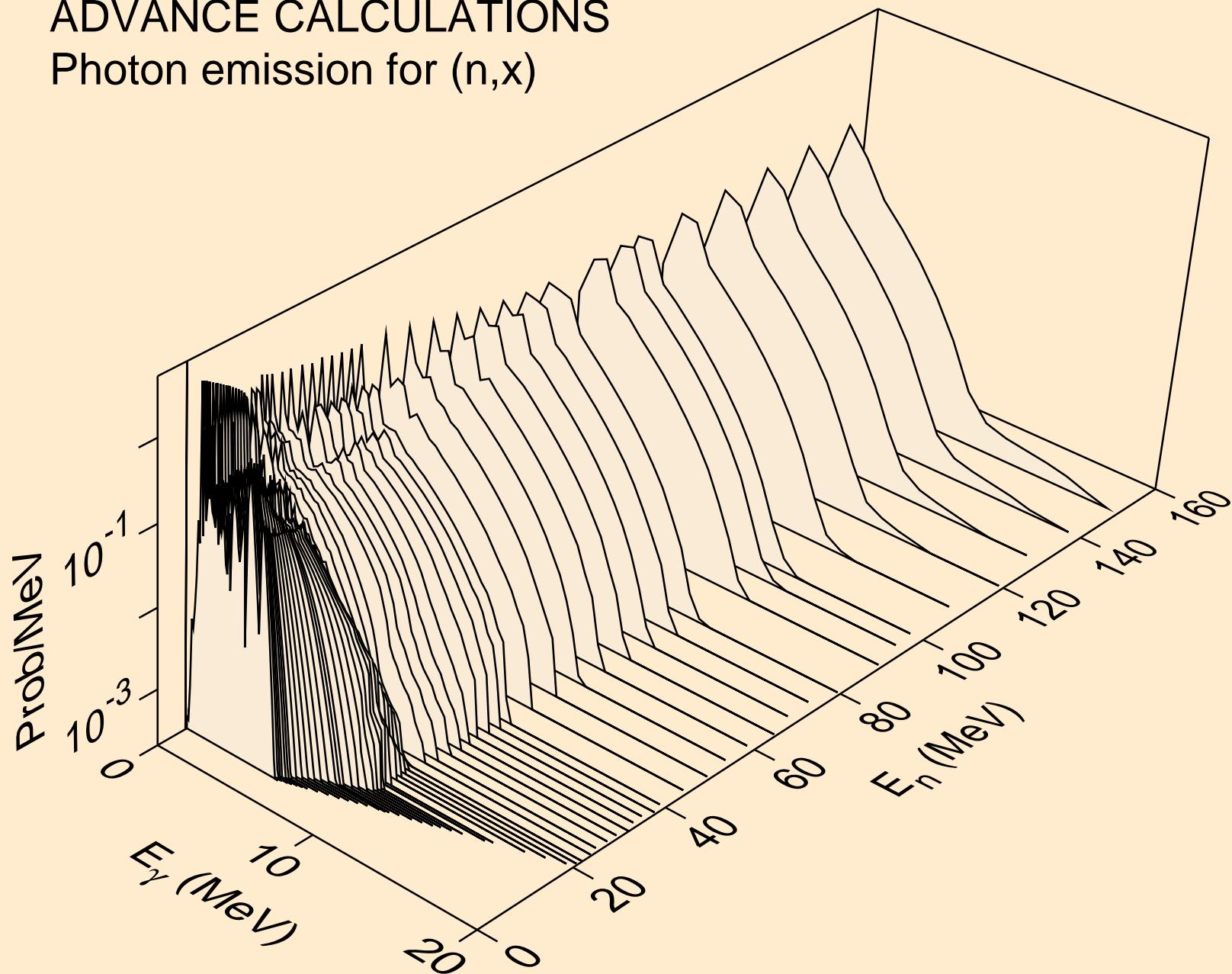
# ADVANCE CALCULATIONS

## Neutron emission for $(n,n^*c)$



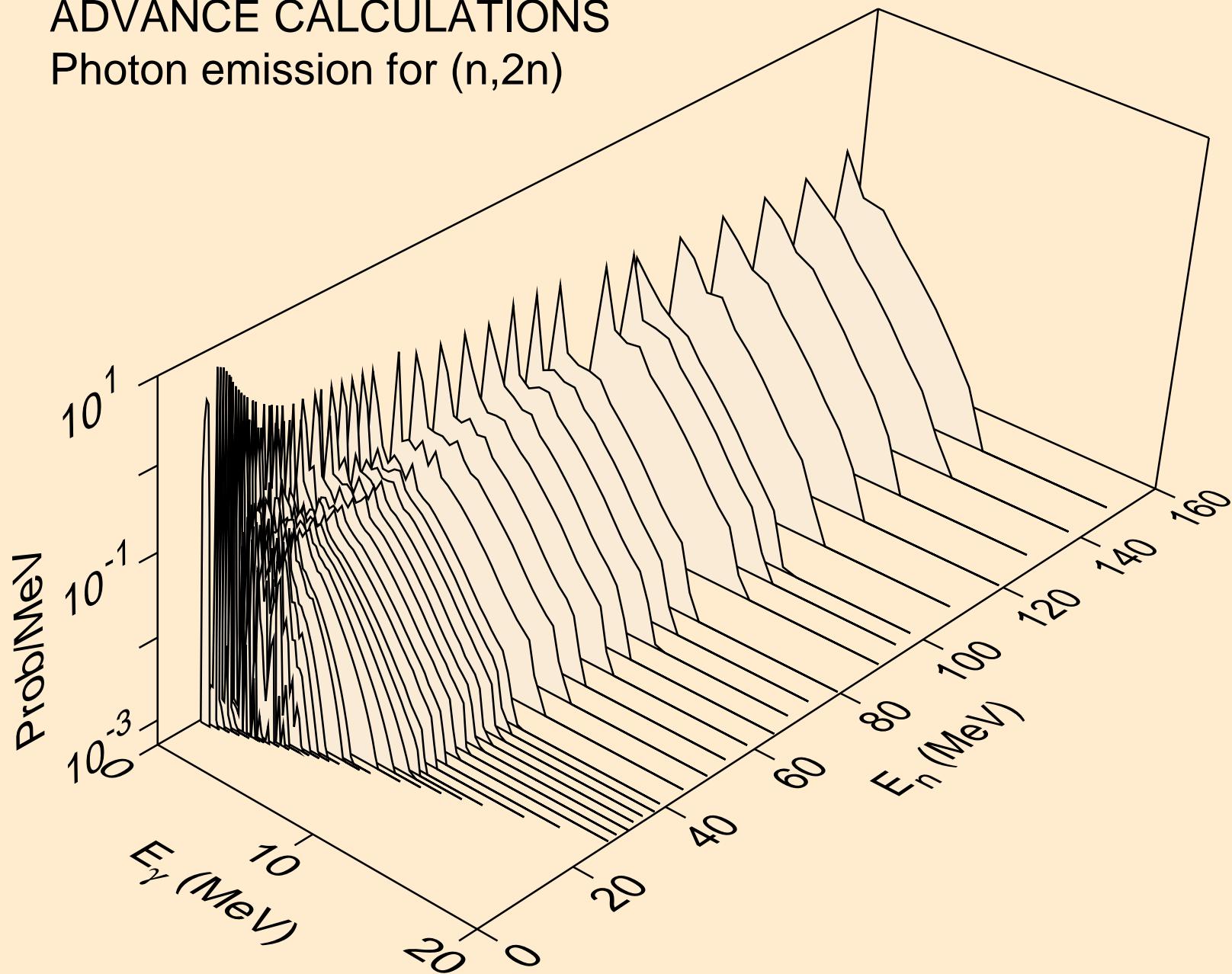
# ADVANCE CALCULATIONS

## Photon emission for (n,x)



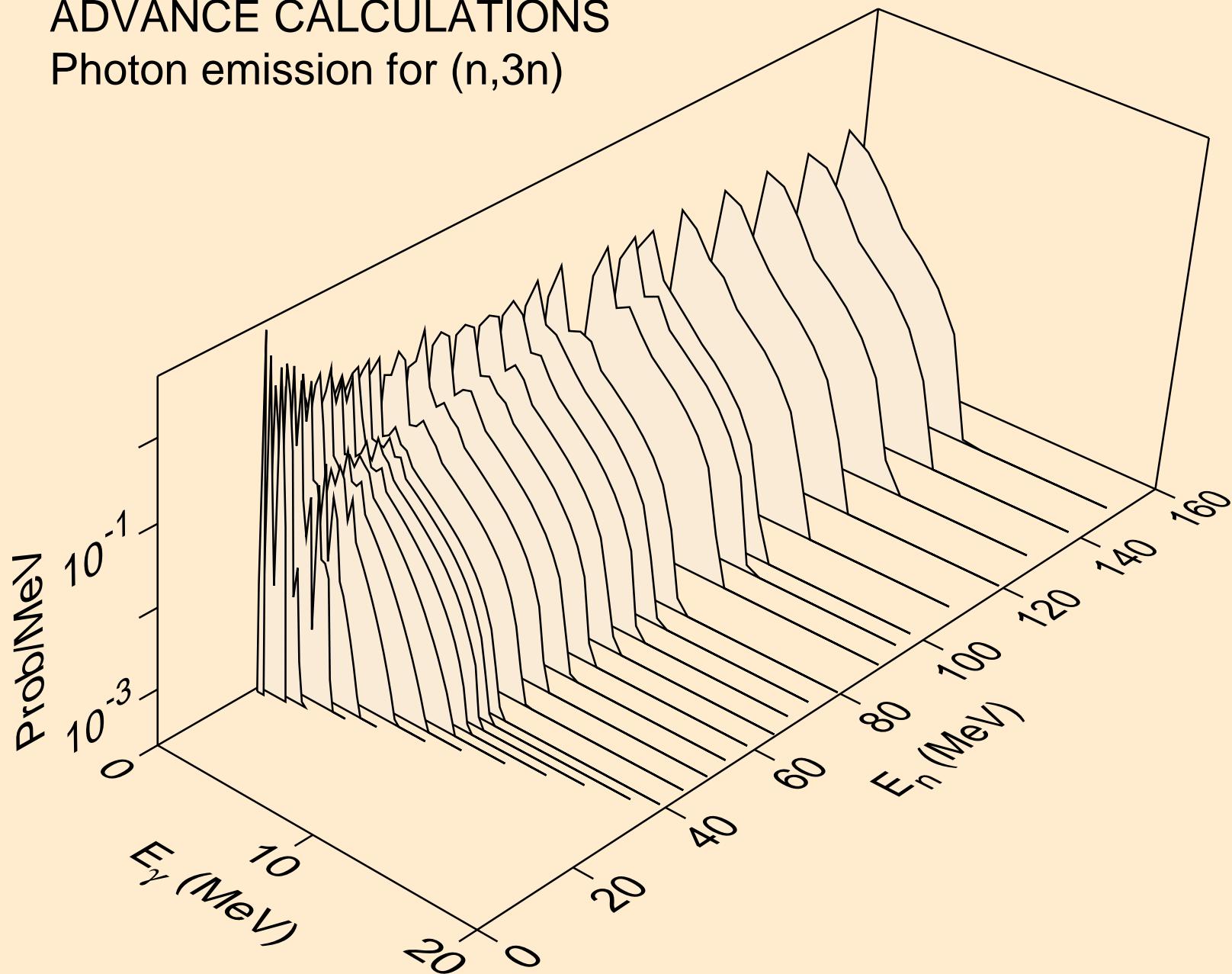
# ADVANCE CALCULATIONS

## Photon emission for (n,2n)



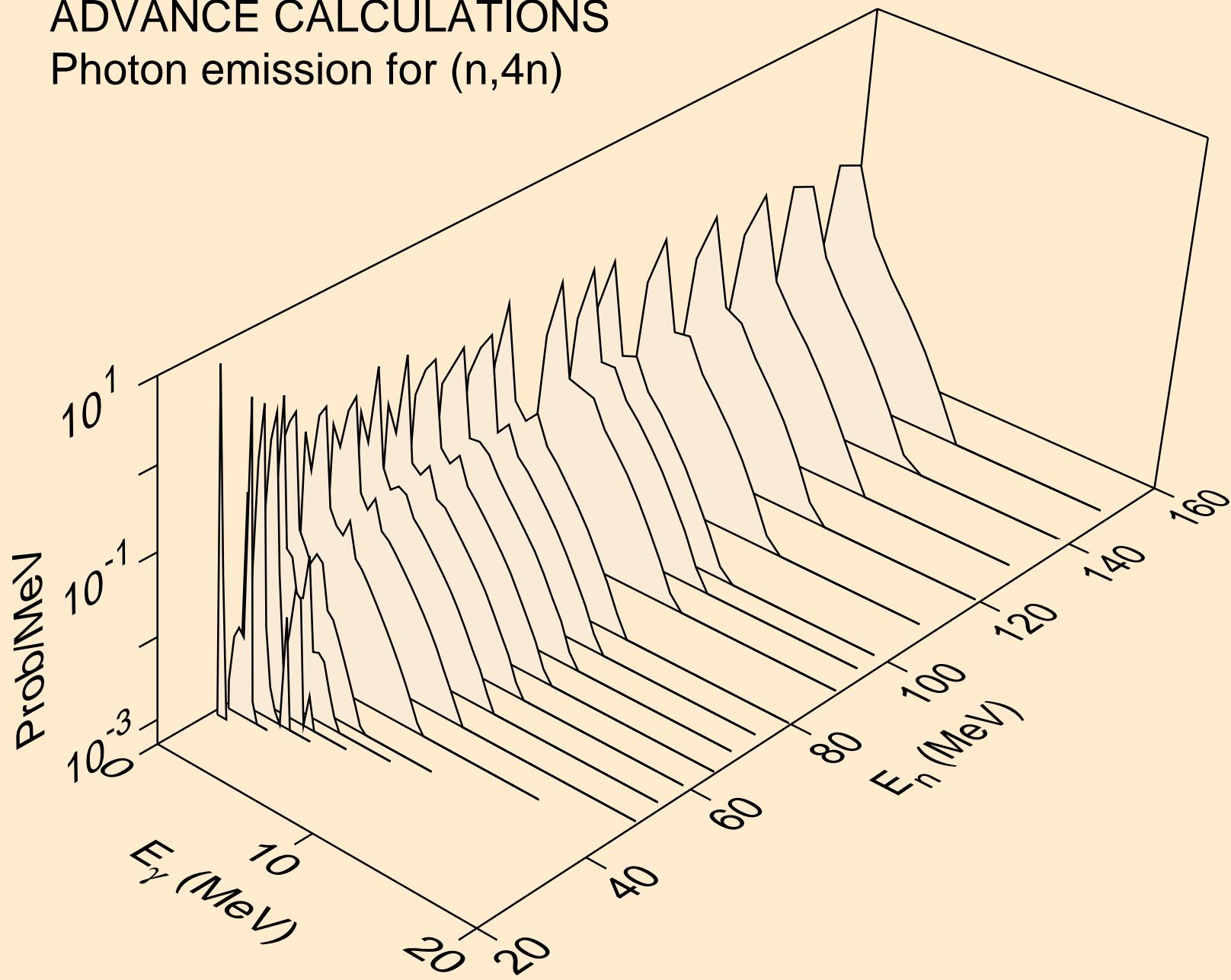
# ADVANCE CALCULATIONS

## Photon emission for (n,3n)



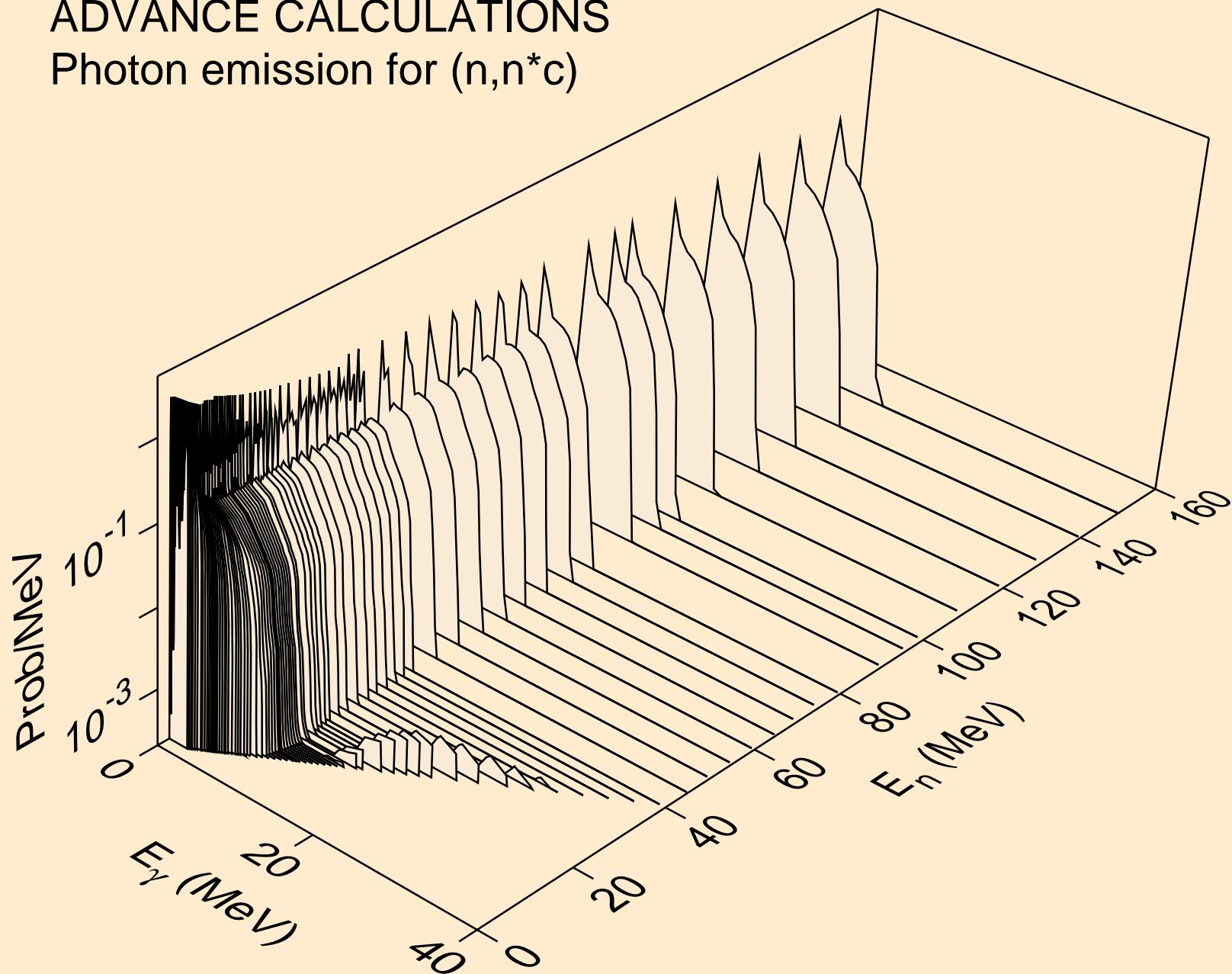
# ADVANCE CALCULATIONS

## Photon emission for (n,4n)



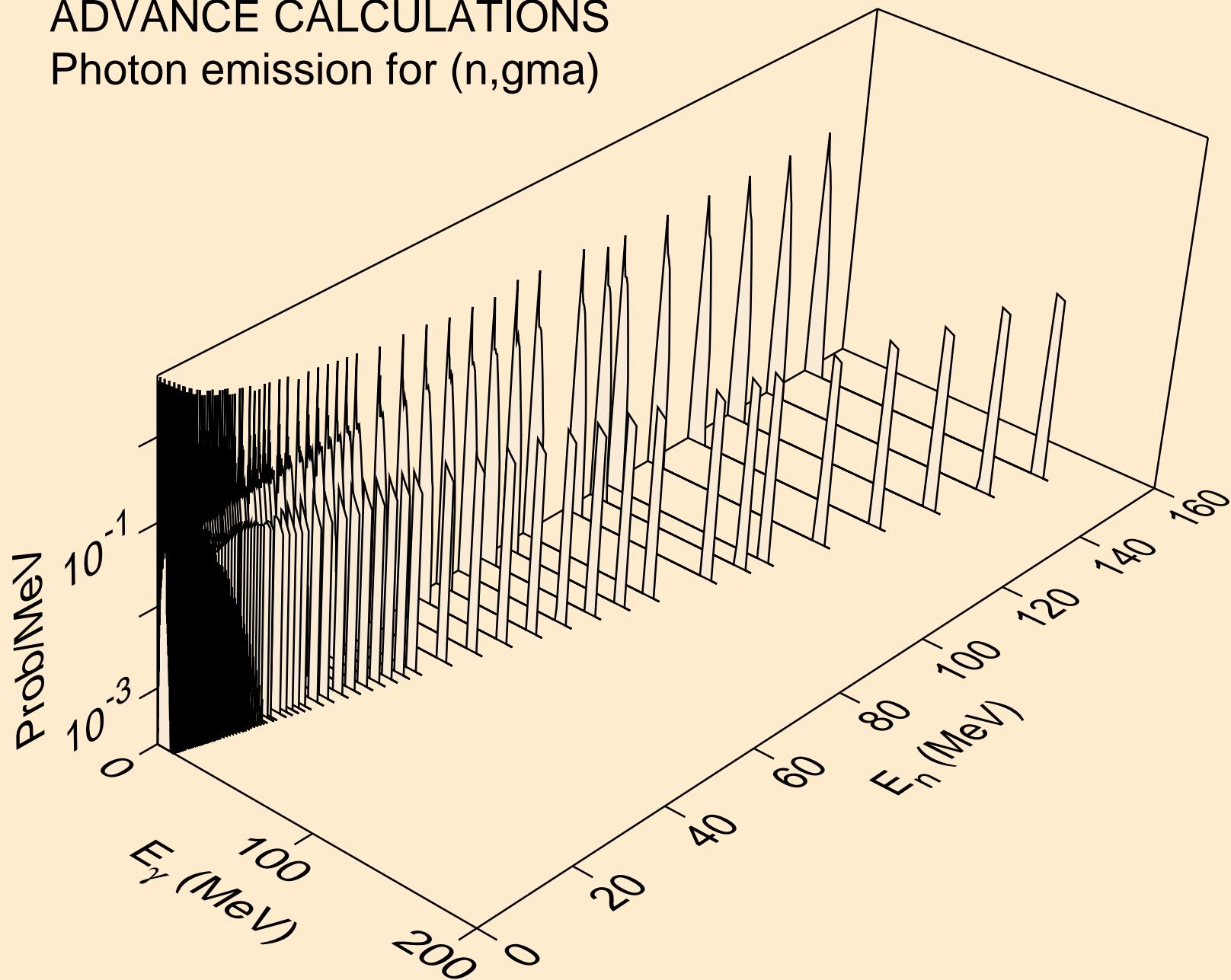
# ADVANCE CALCULATIONS

## Photon emission for $(n,n^*c)$



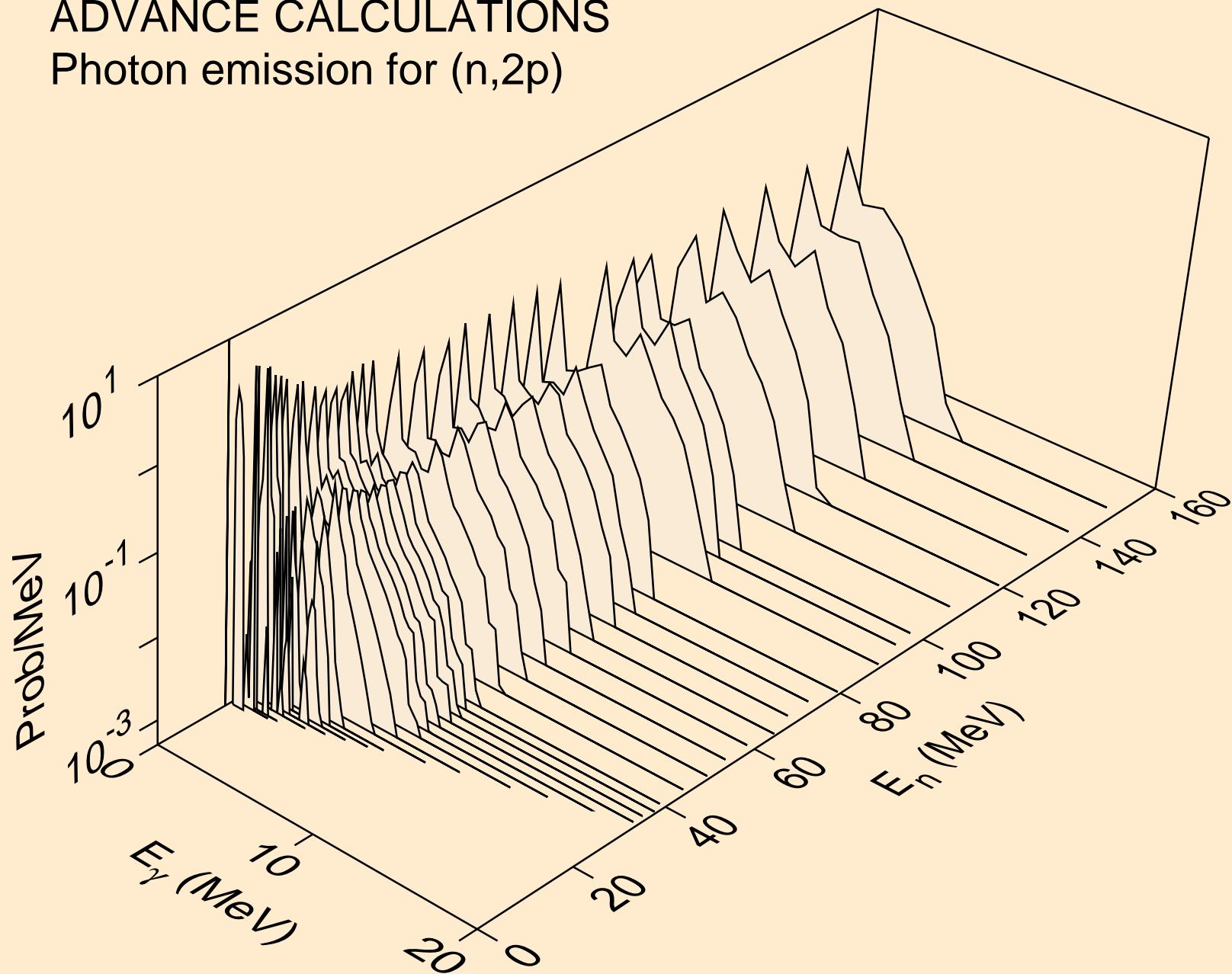
# ADVANCE CALCULATIONS

## Photon emission for (n,gma)



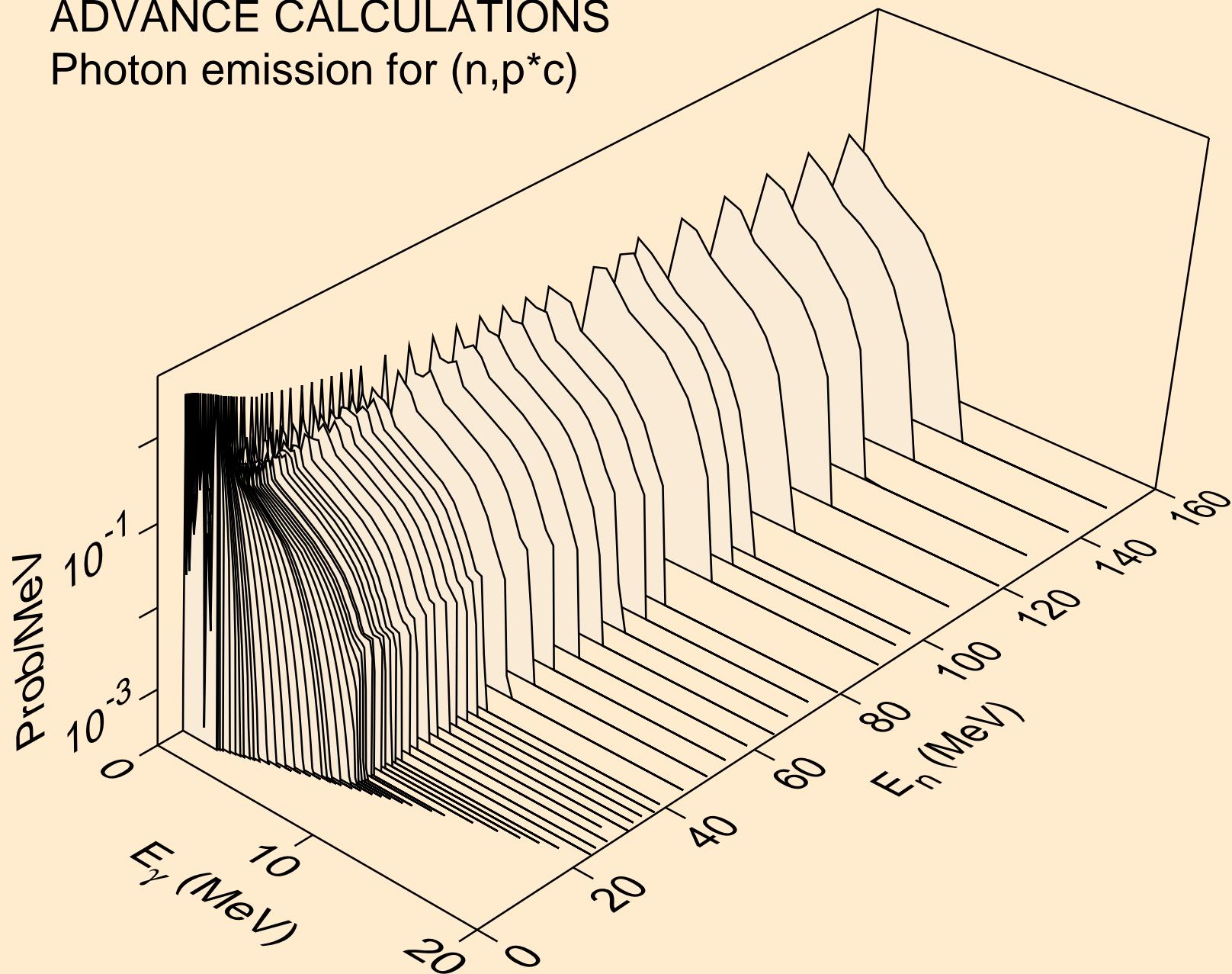
# ADVANCE CALCULATIONS

## Photon emission for (n,2p)



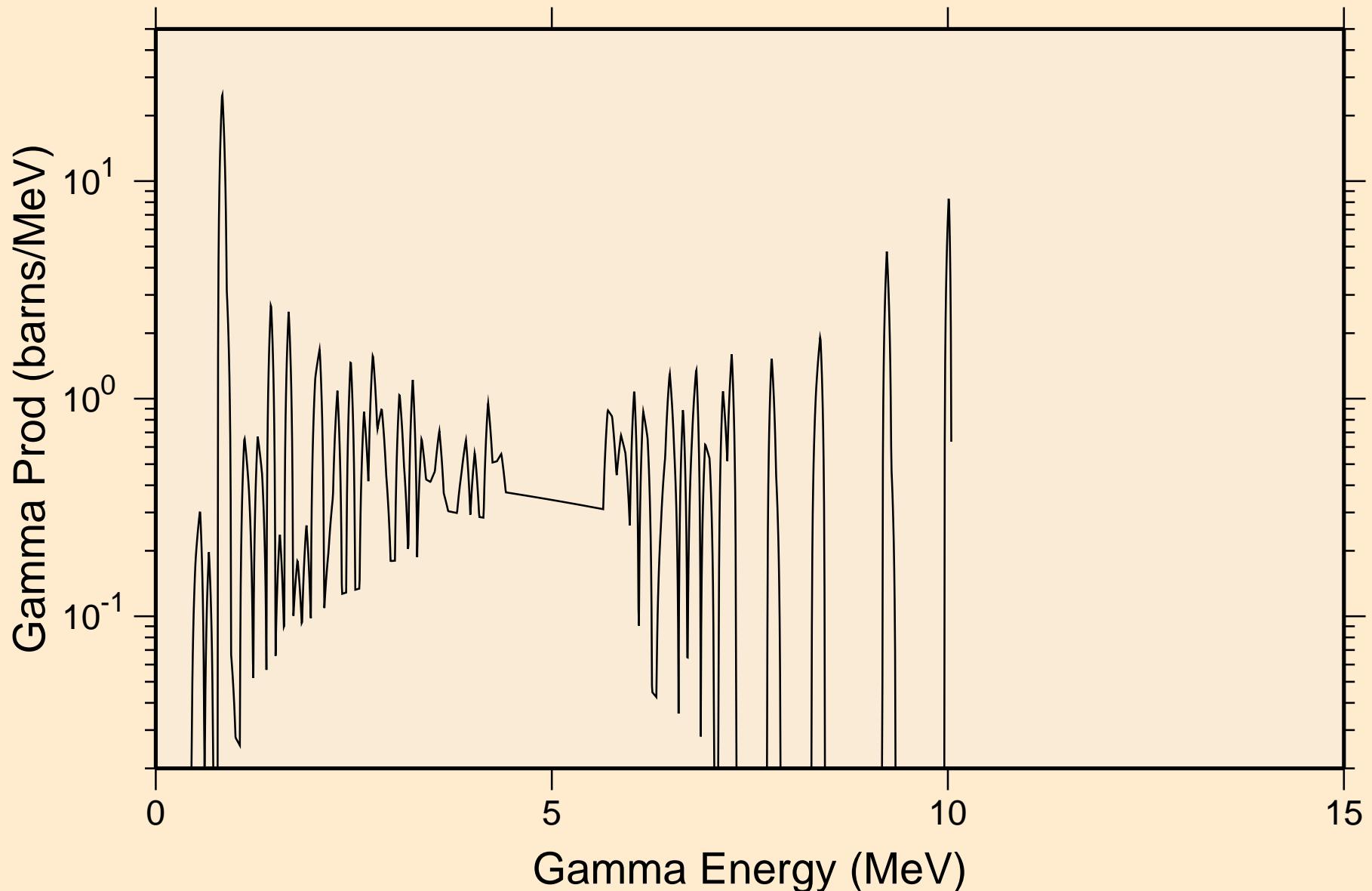
# ADVANCE CALCULATIONS

## Photon emission for $(n, p^* c)$

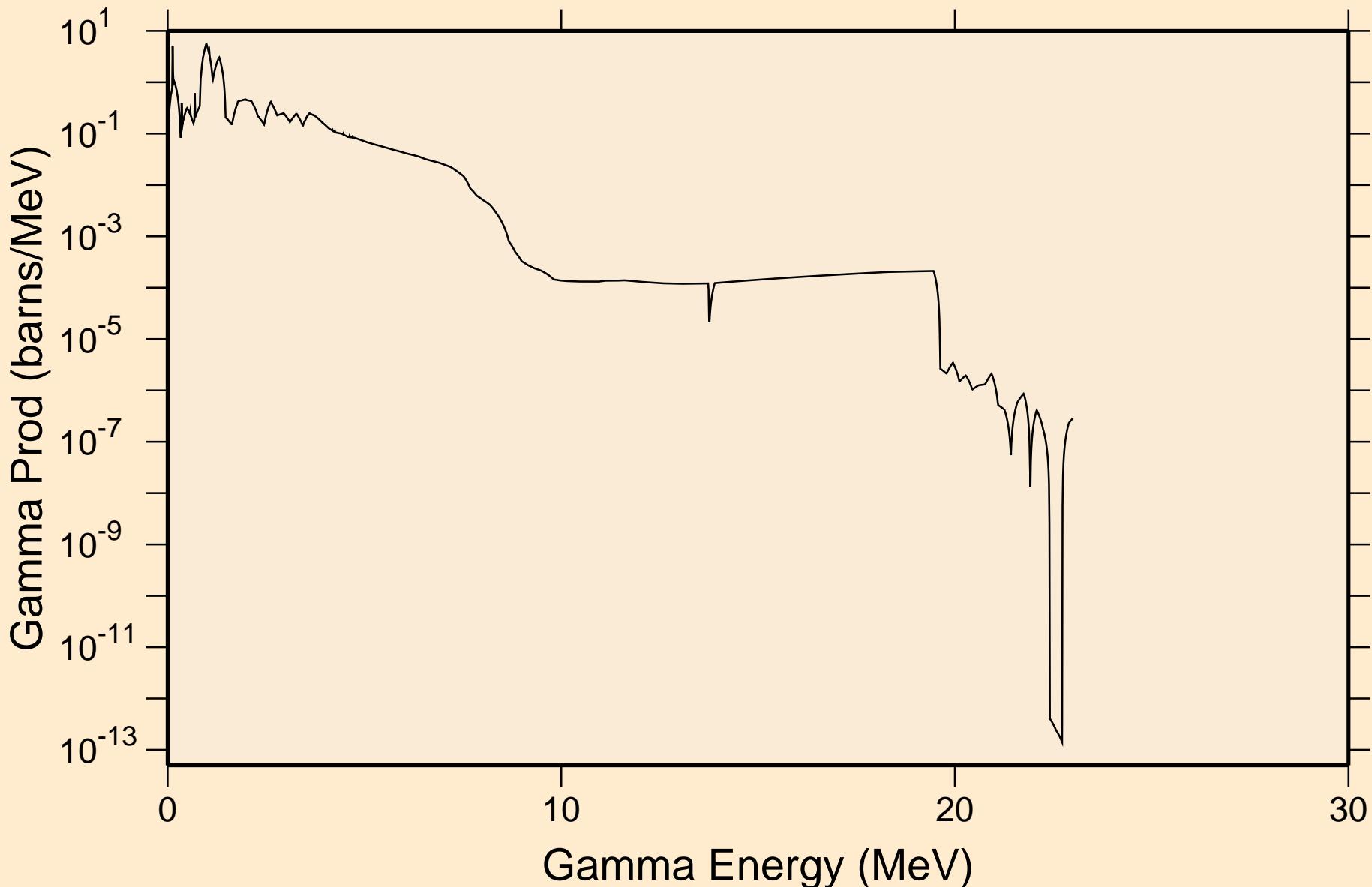


# ADVANCE CALCULATIONS

## thermal capture photon spectrum

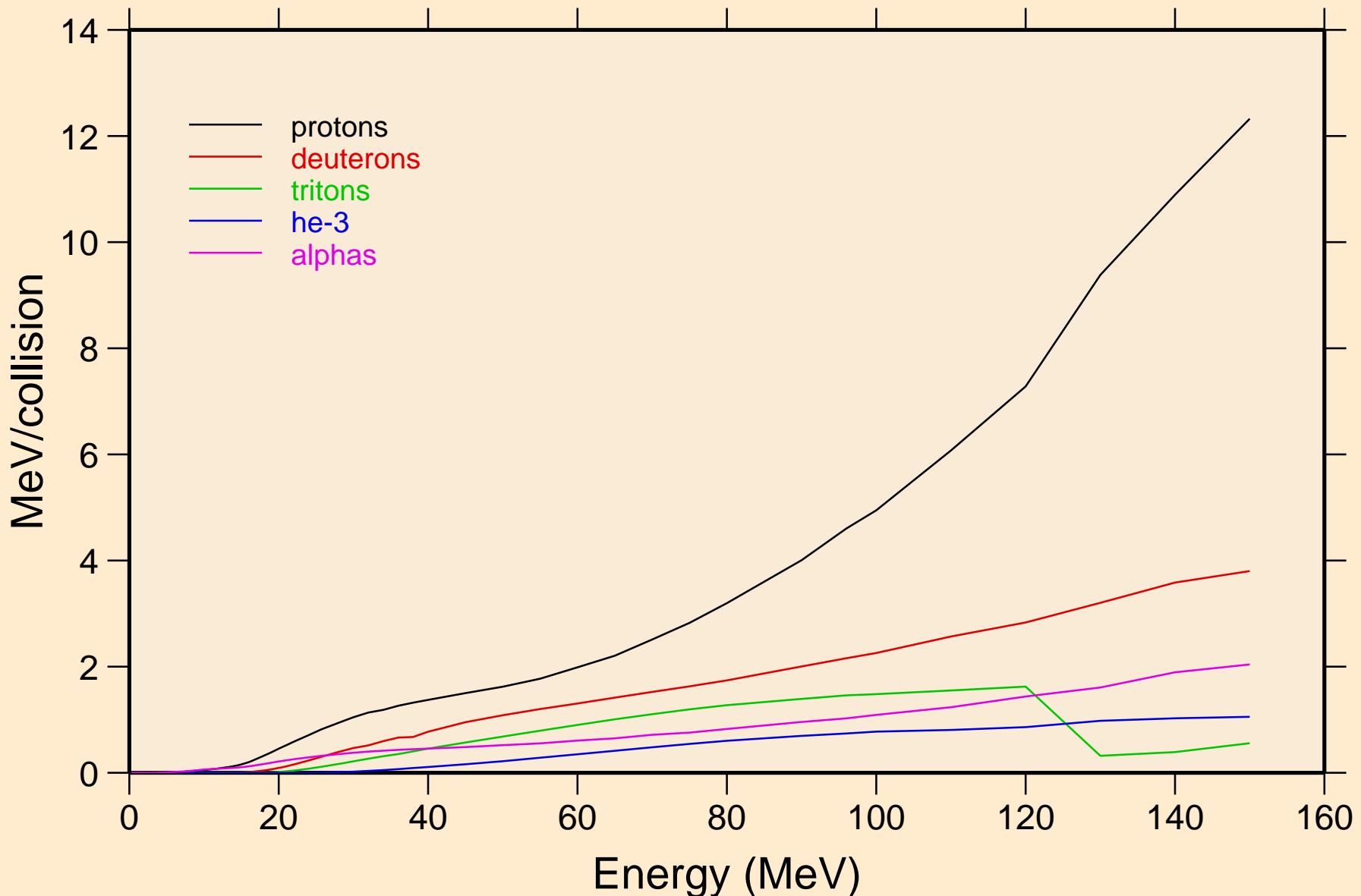


ADVANCE CALCULATIONS  
14 MeV photon spectrum



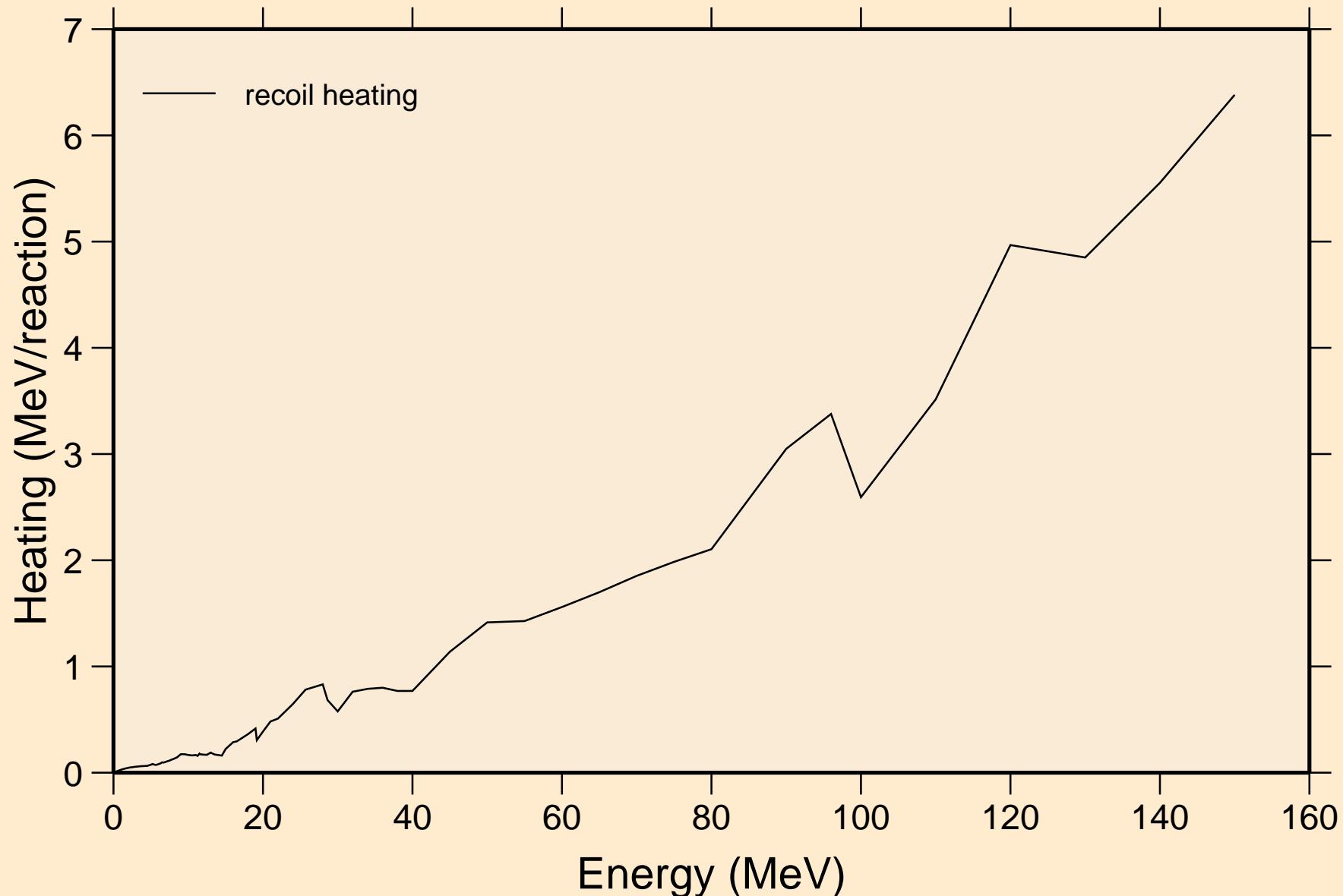
# ADVANCE CALCULATIONS

## Particle heating contributions



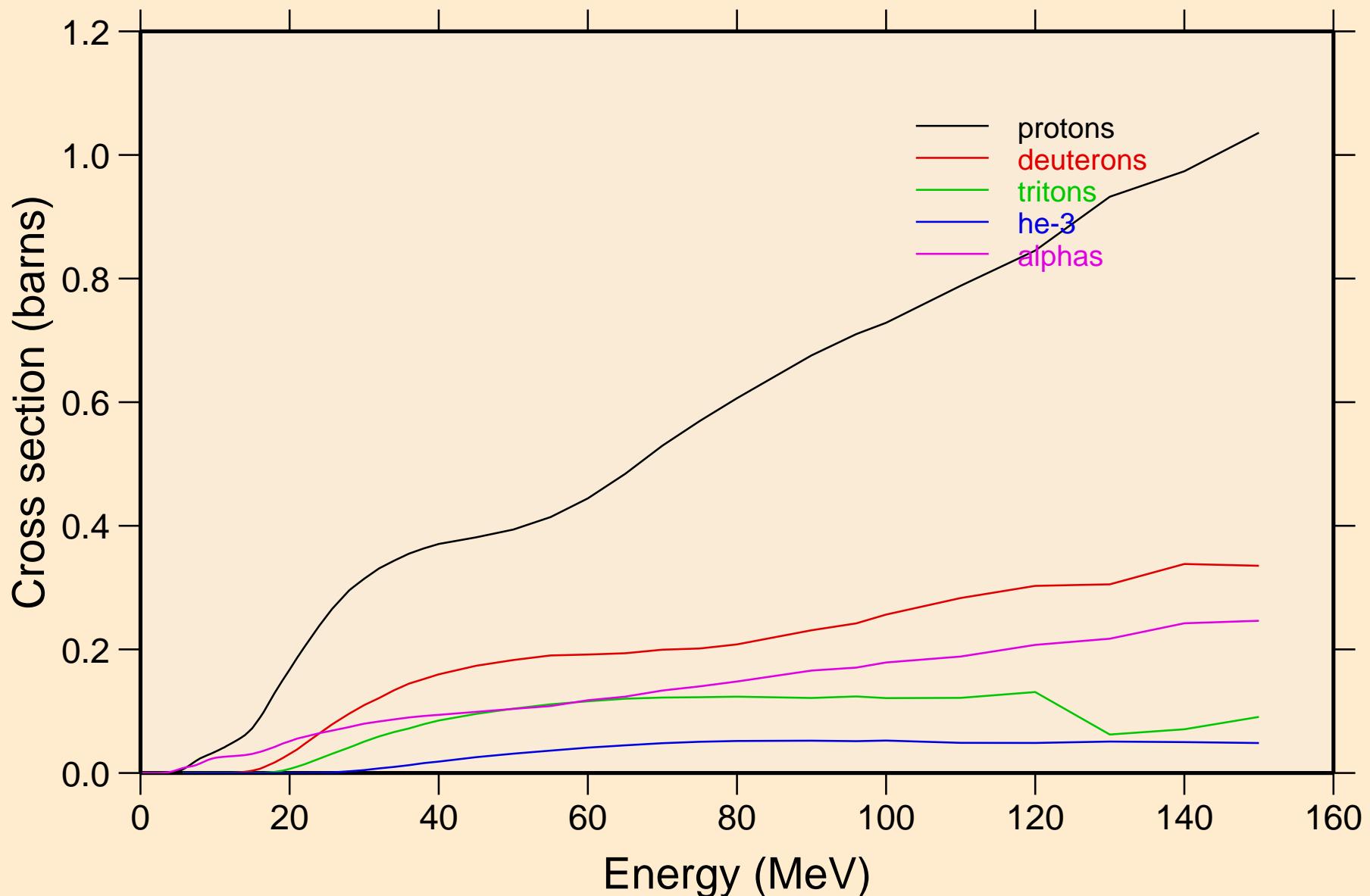
# ADVANCE CALCULATIONS

## Recoil Heating



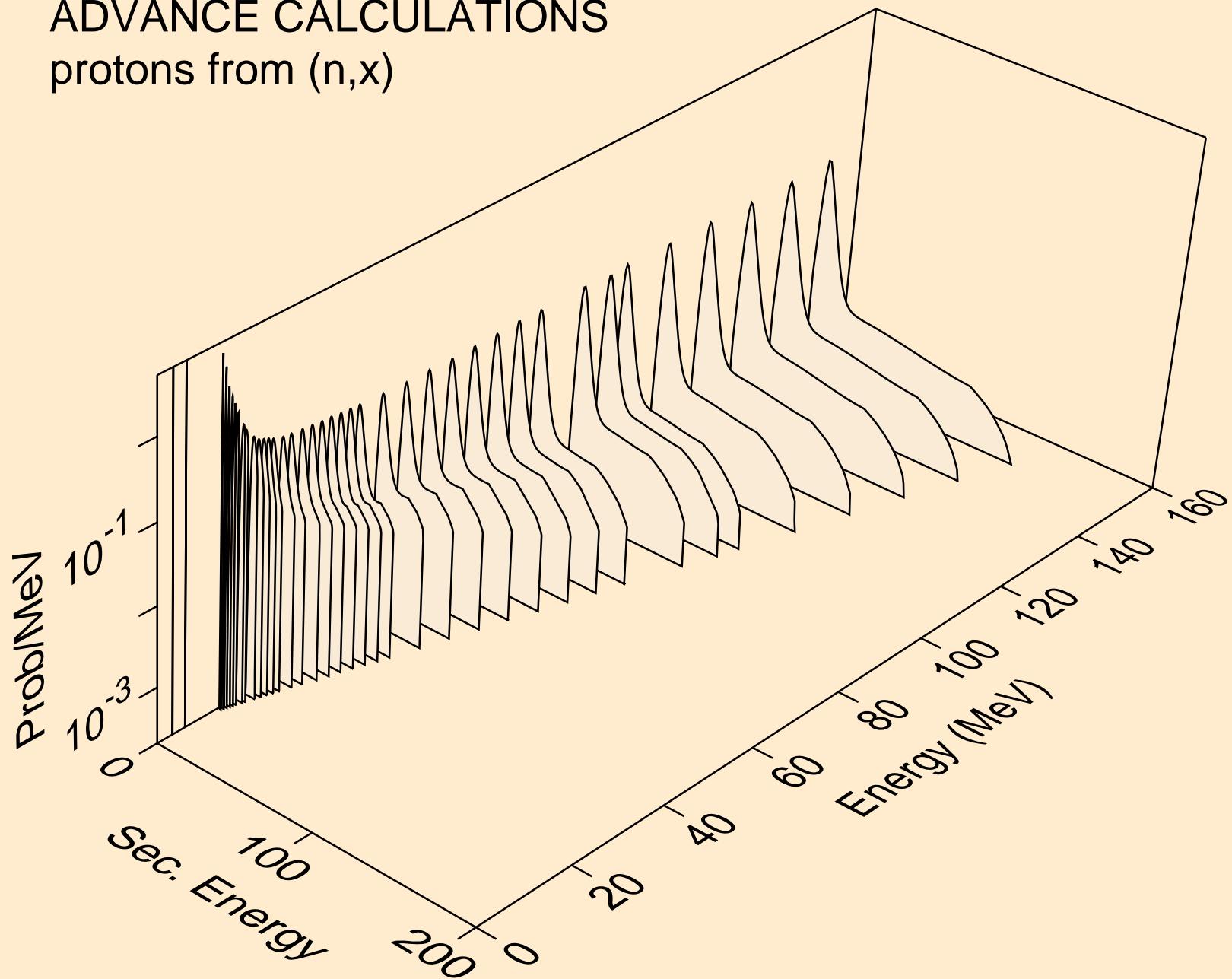
# ADVANCE CALCULATIONS

## Particle production cross sections



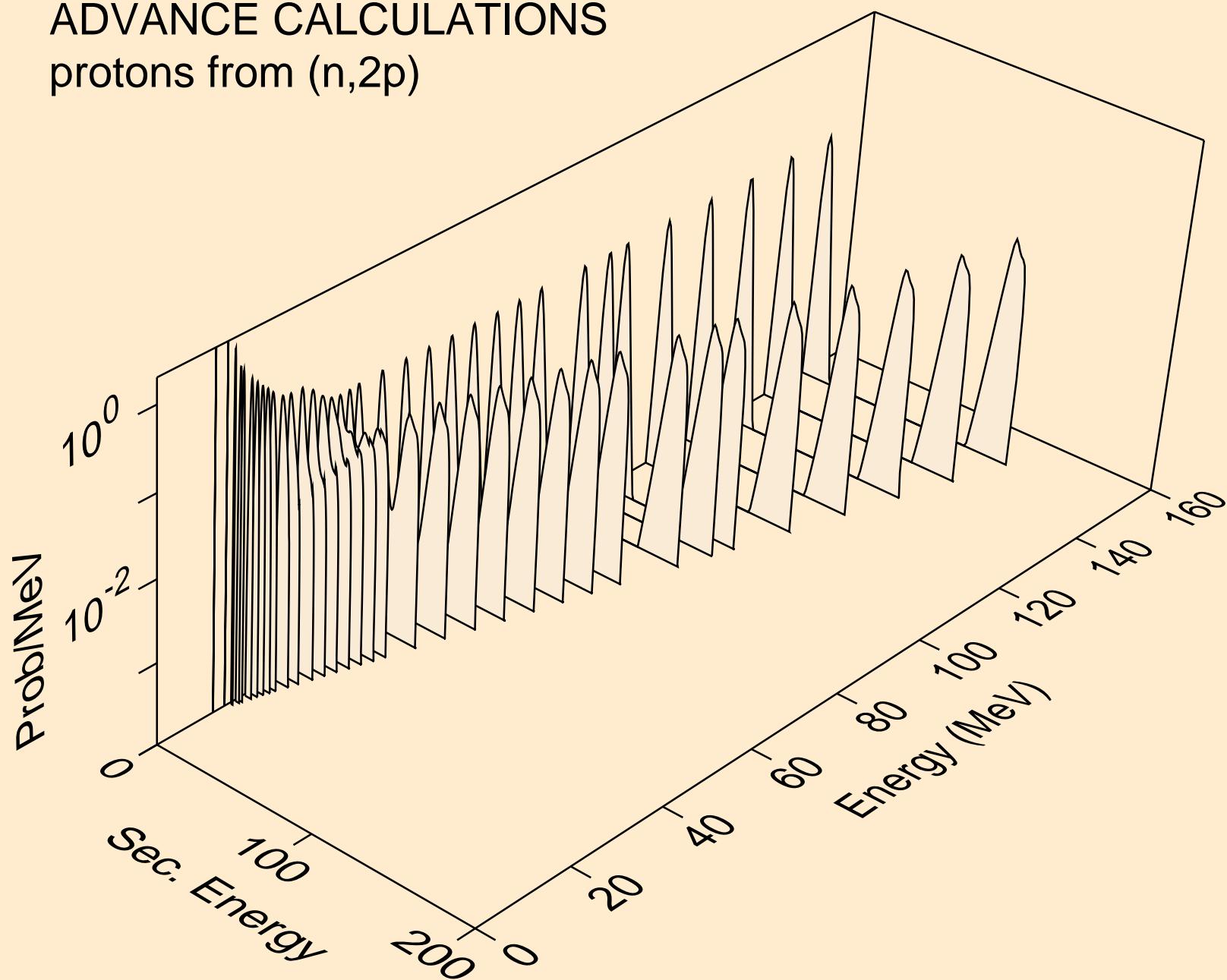
# ADVANCE CALCULATIONS

protons from ( $n, x$ )



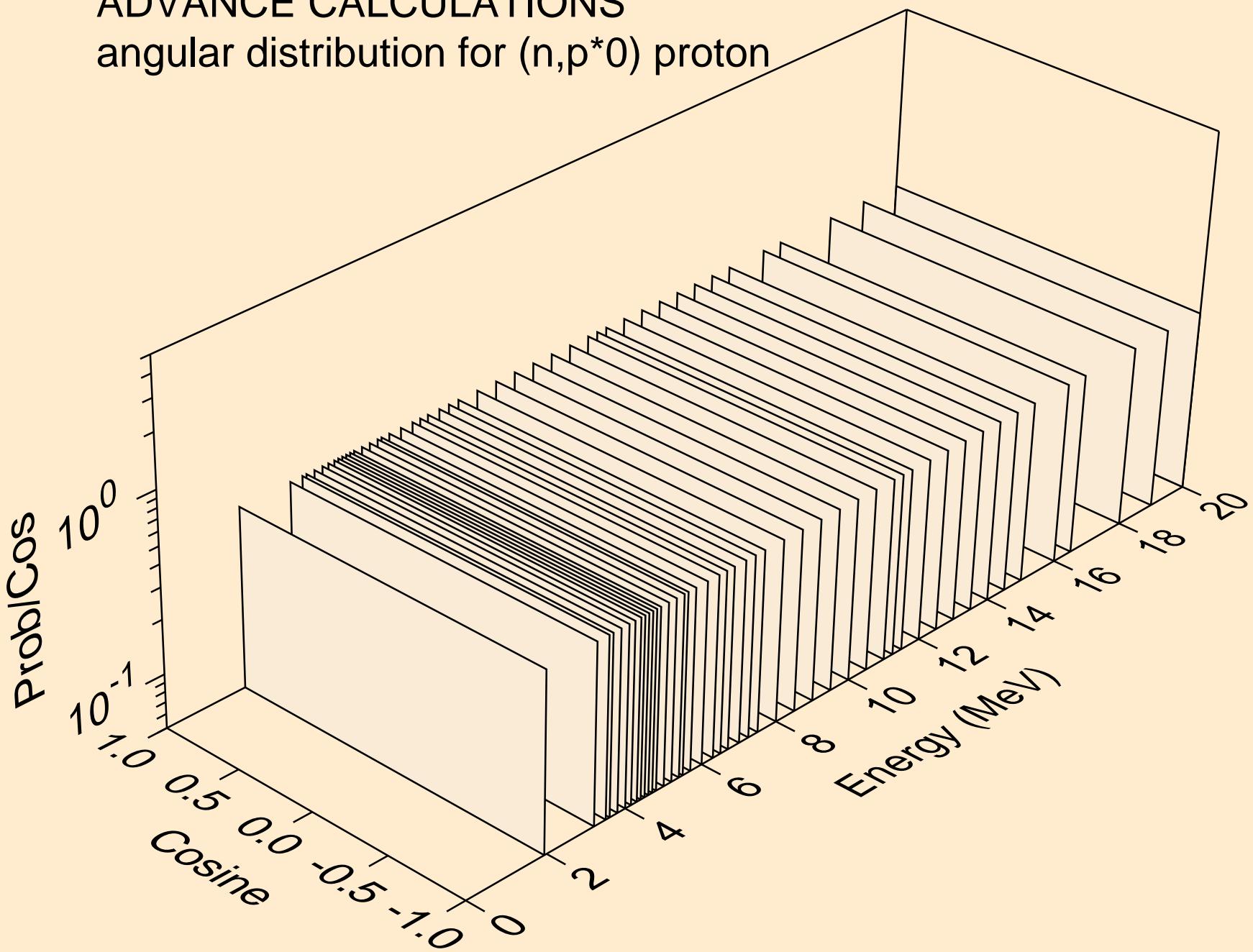
# ADVANCE CALCULATIONS

protons from (n,2p)



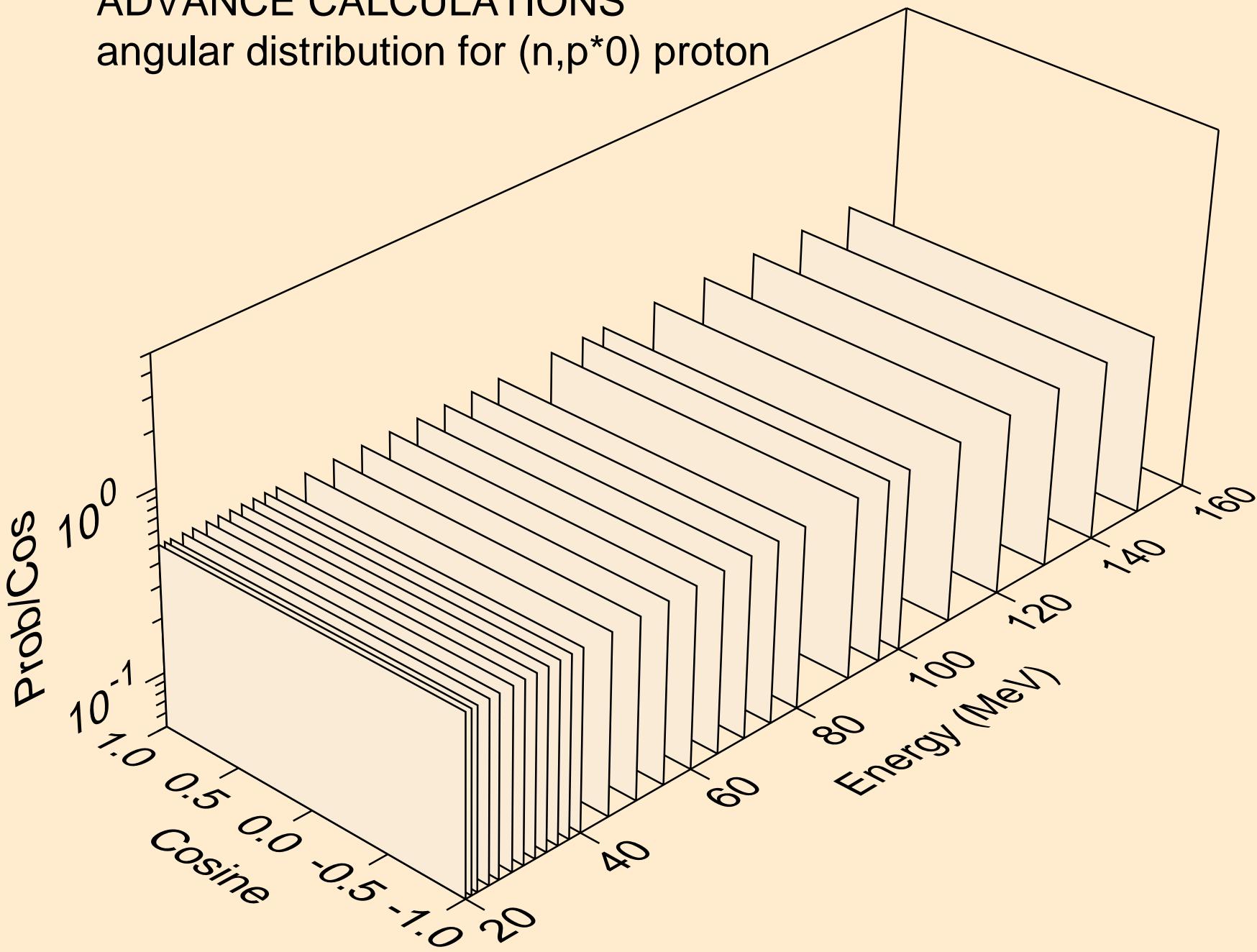
# ADVANCE CALCULATIONS

## angular distribution for $(n,p^*0)$ proton



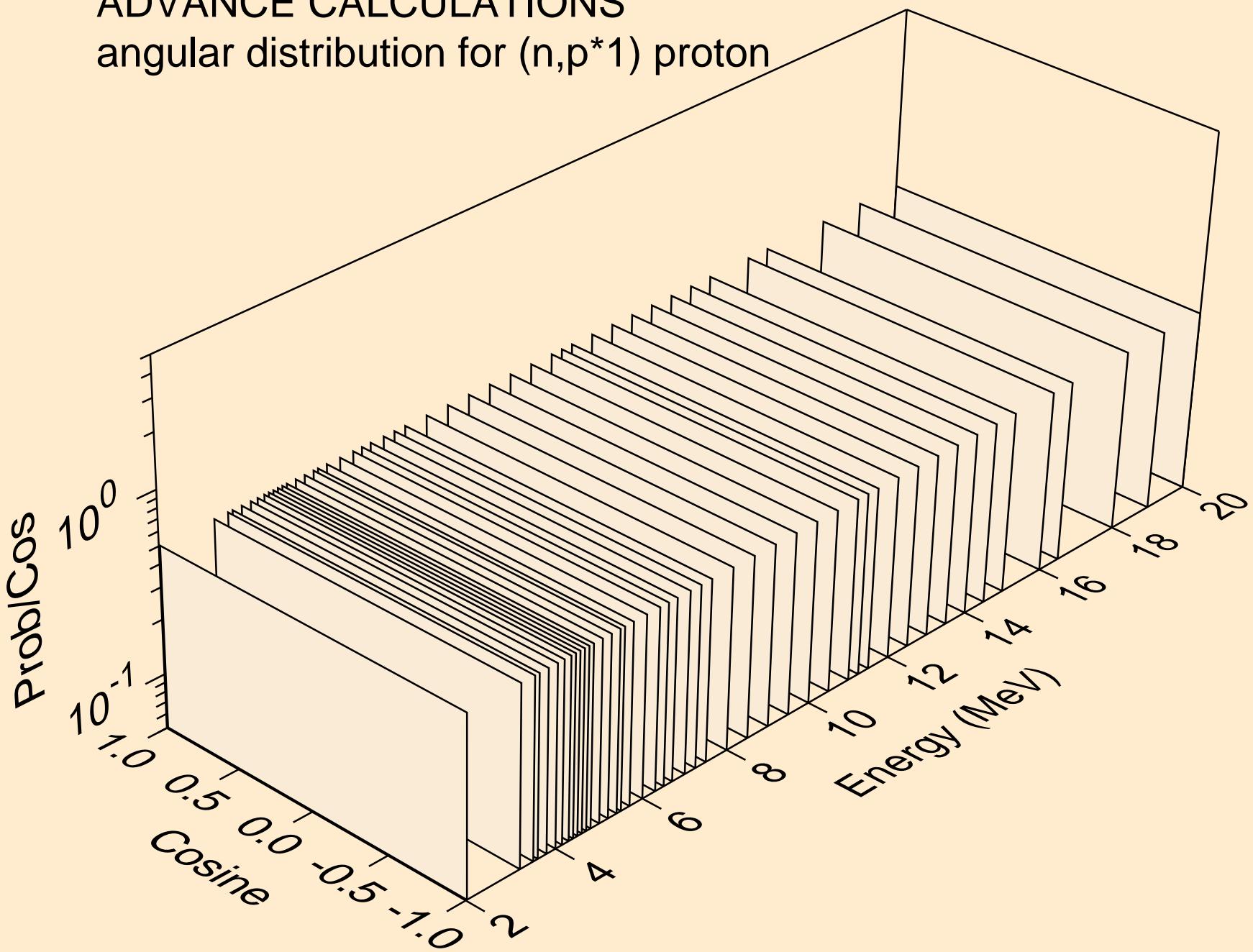
# ADVANCE CALCULATIONS

## angular distribution for $(n,p^*0)$ proton



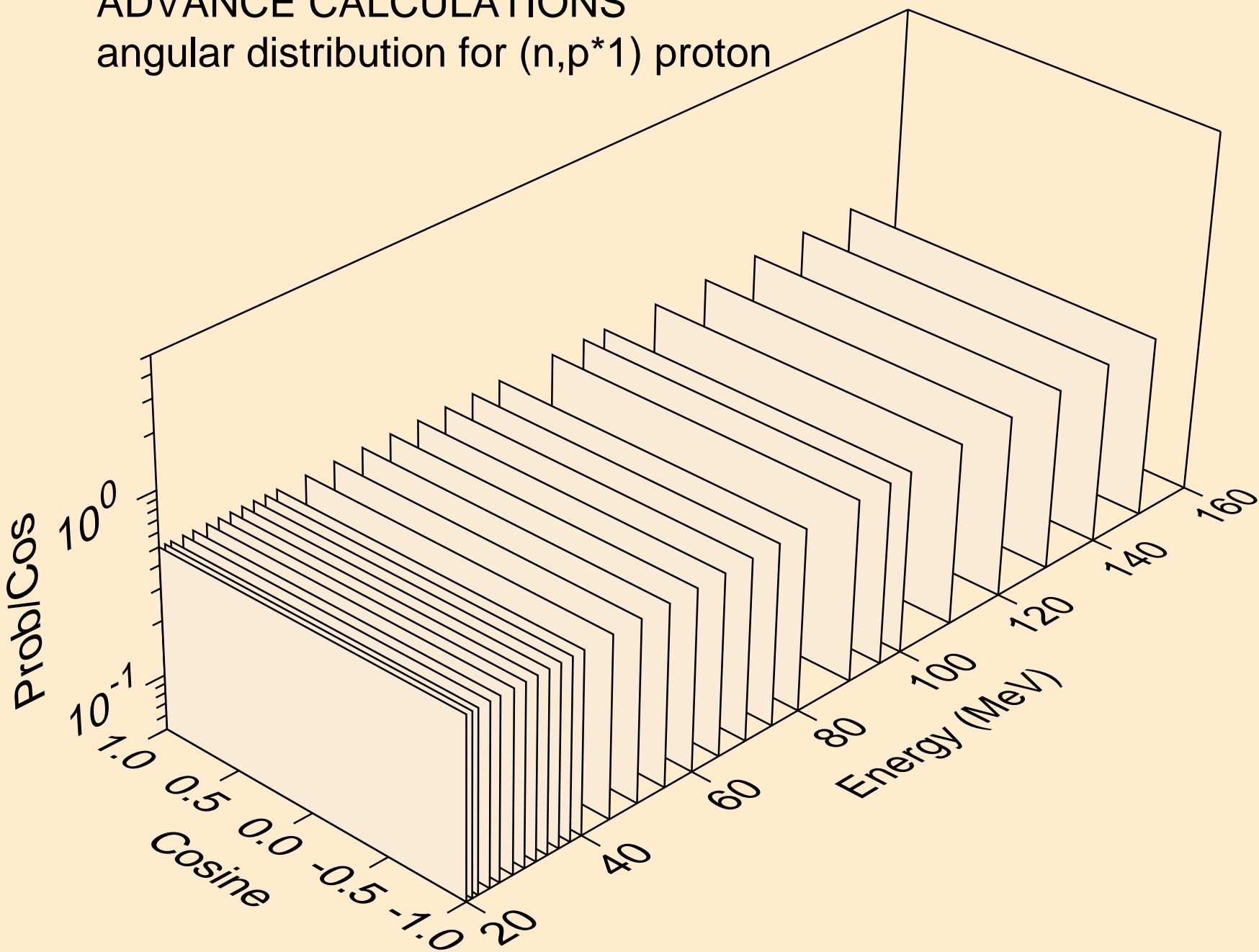
# ADVANCE CALCULATIONS

## angular distribution for ( $n,p^*1$ ) proton



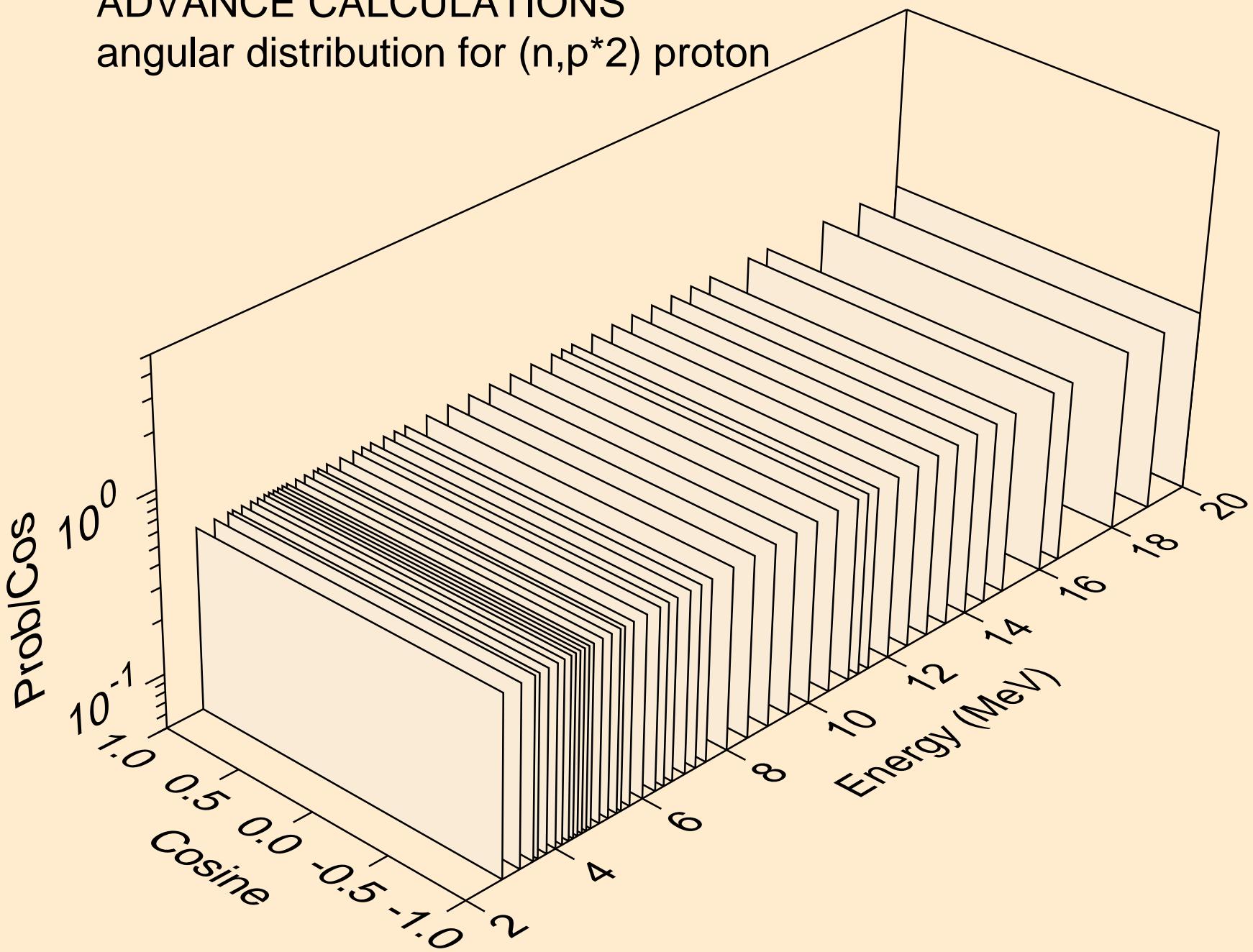
# ADVANCE CALCULATIONS

## angular distribution for ( $n,p^*1$ ) proton



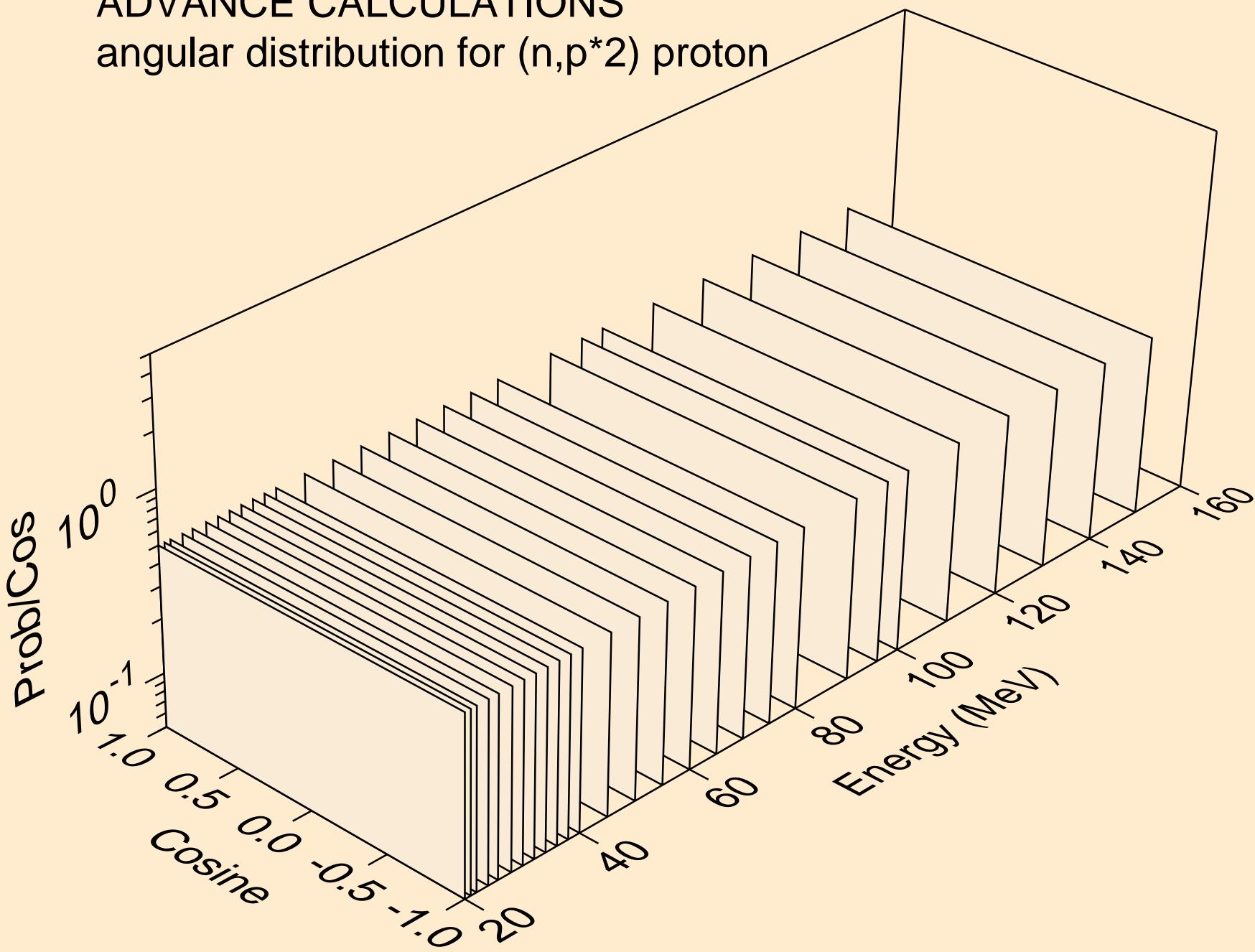
# ADVANCE CALCULATIONS

## angular distribution for $(n,p^*2)$ proton



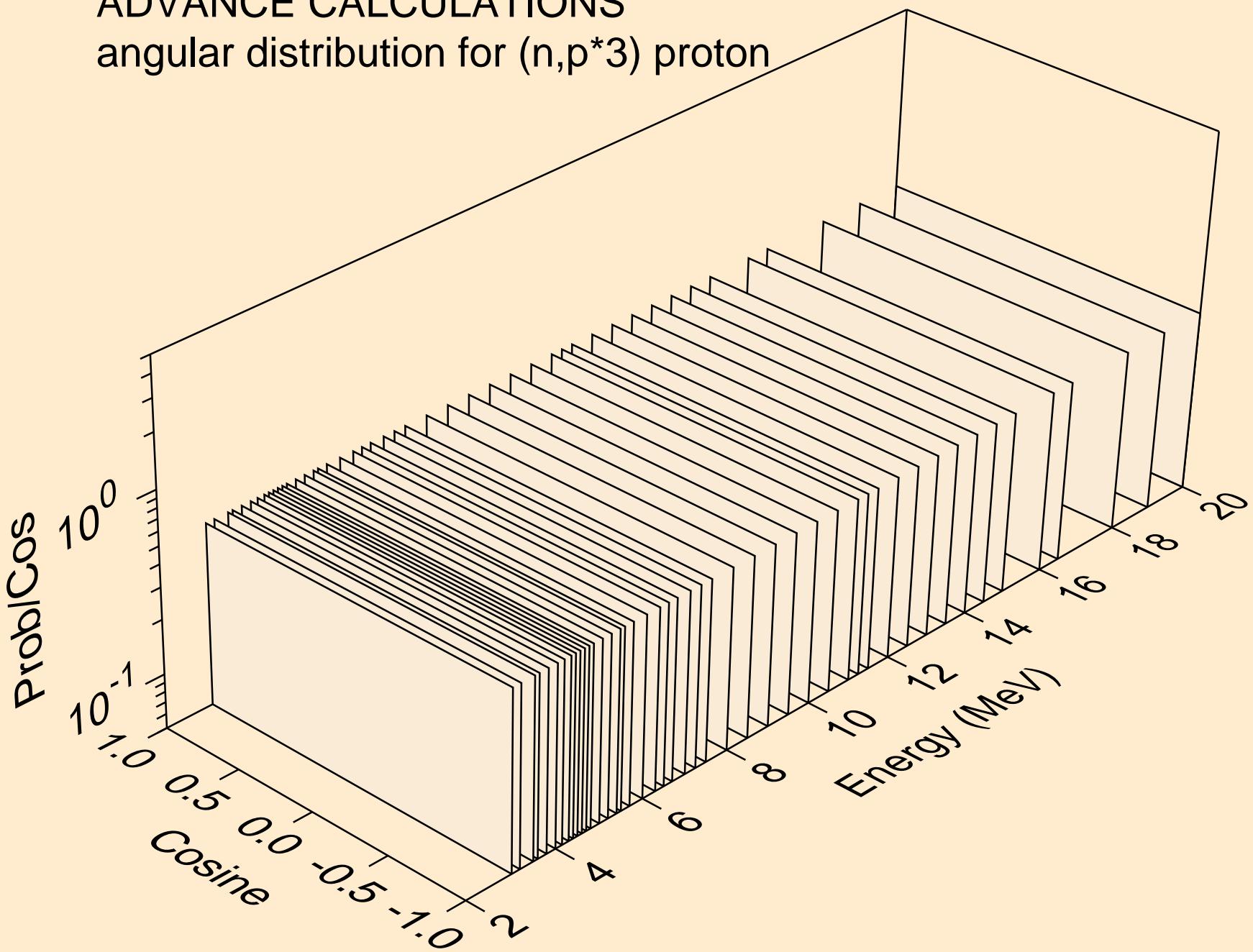
# ADVANCE CALCULATIONS

## angular distribution for $(n,p^*2)$ proton



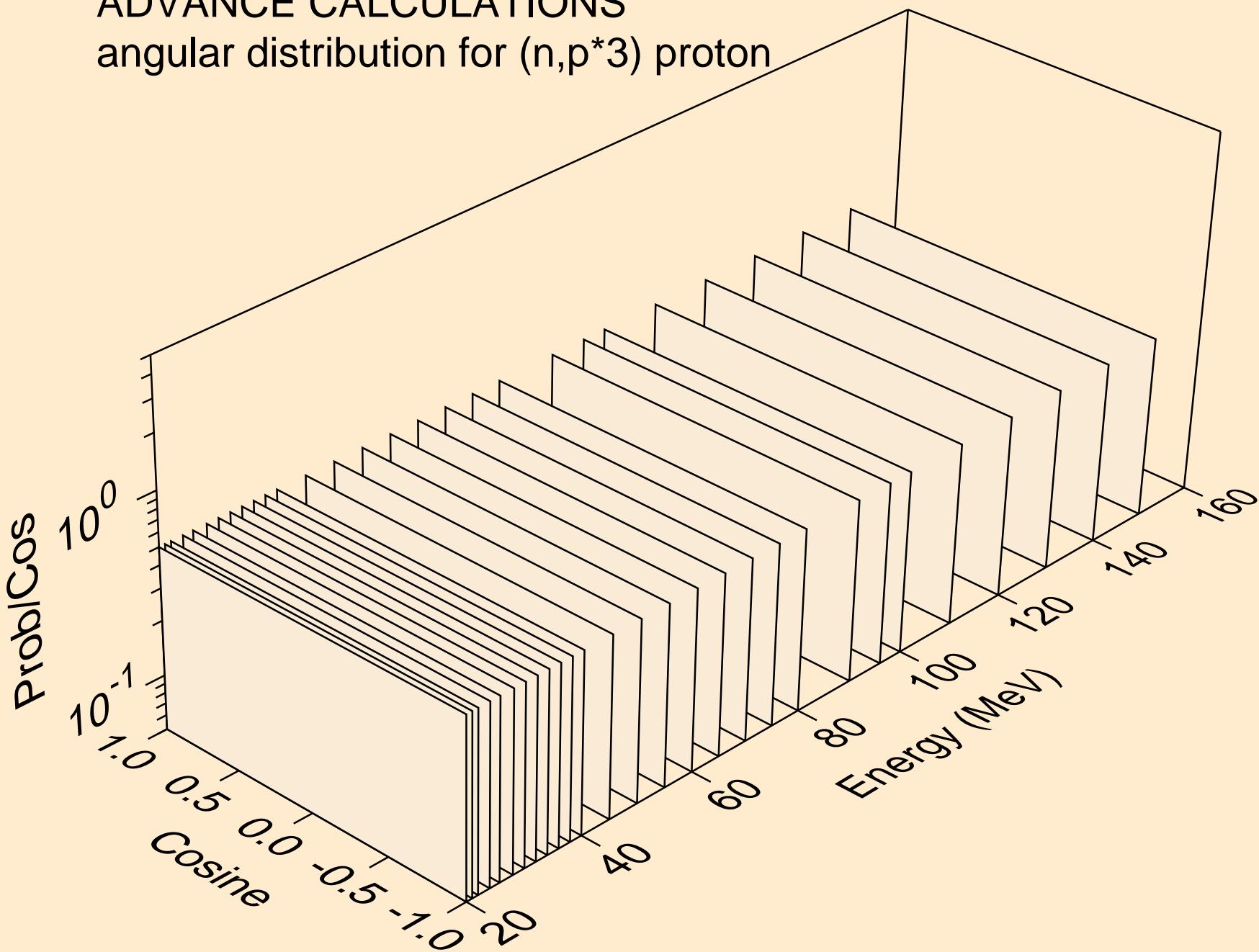
# ADVANCE CALCULATIONS

## angular distribution for $(n,p^*3)$ proton



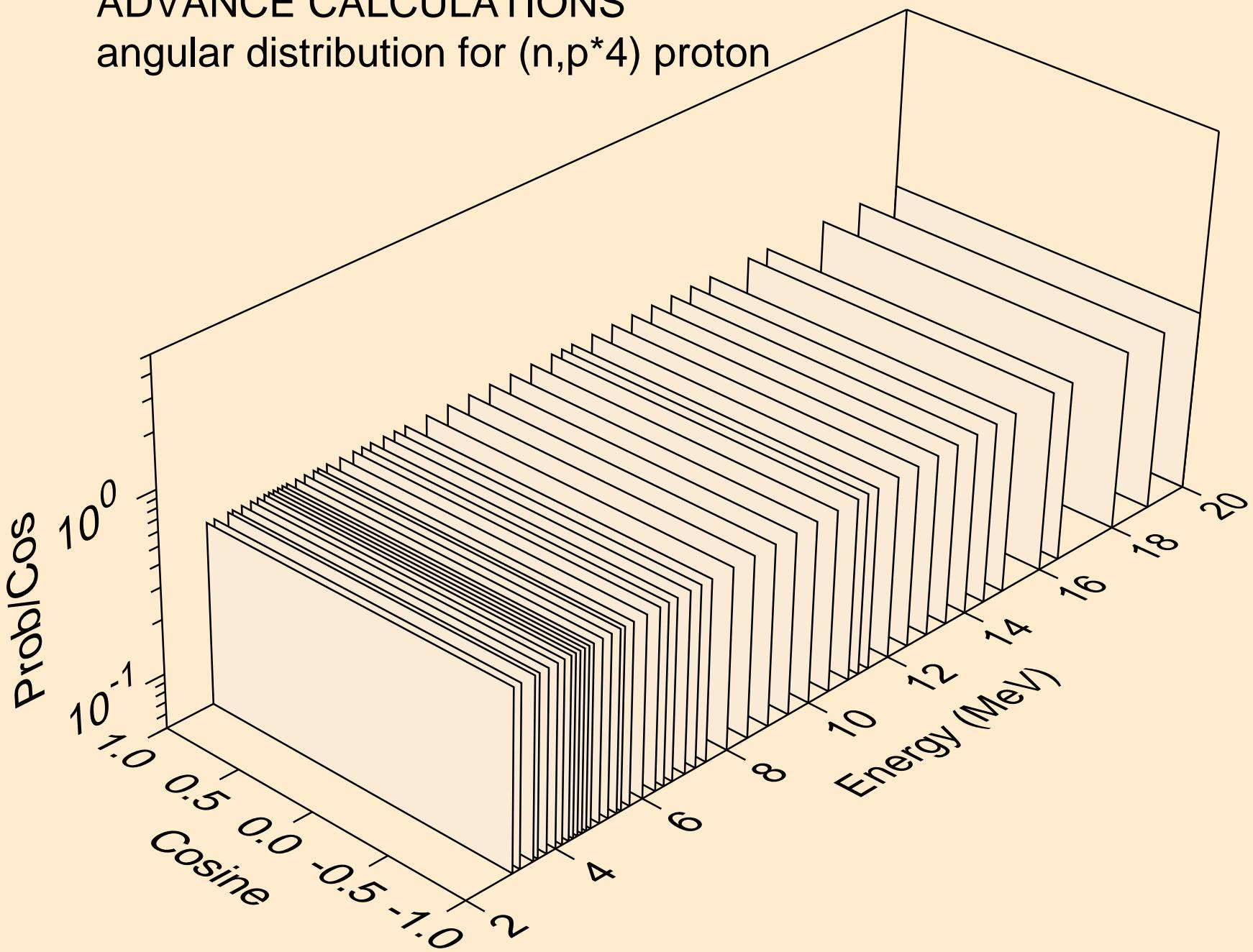
# ADVANCE CALCULATIONS

## angular distribution for ( $n,p^*3$ ) proton



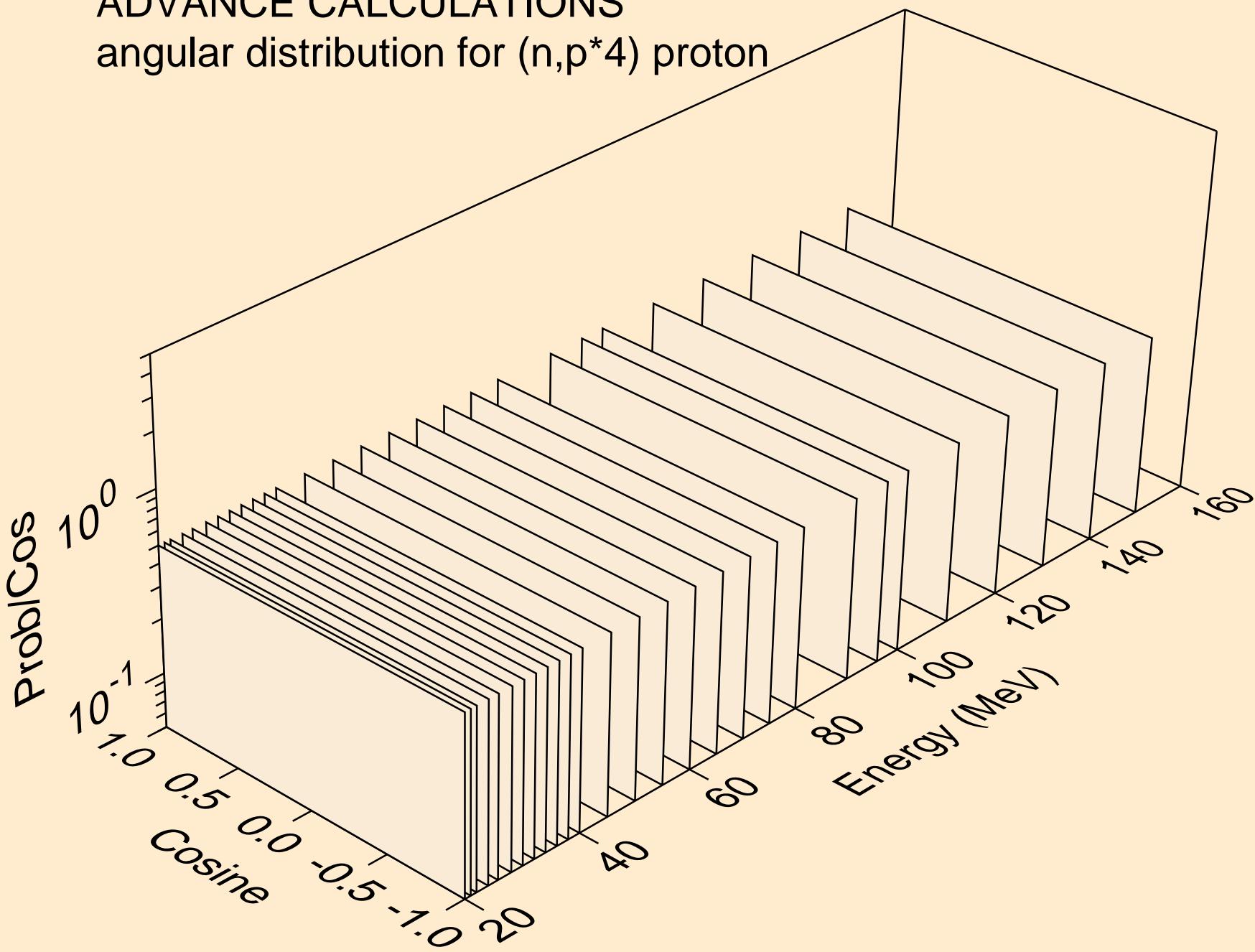
# ADVANCE CALCULATIONS

## angular distribution for $(n,p^*4)$ proton



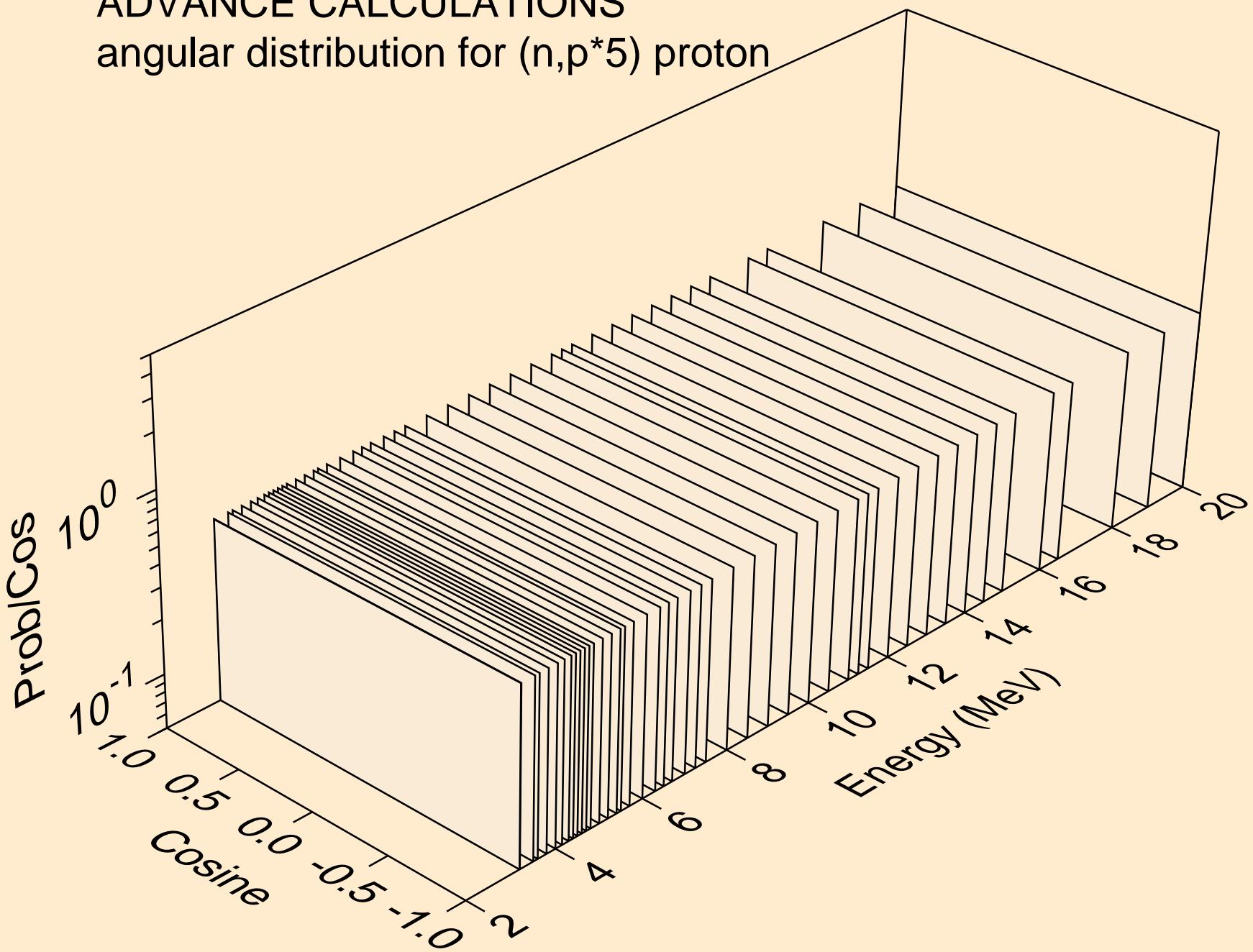
# ADVANCE CALCULATIONS

## angular distribution for ( $n,p^*4$ ) proton



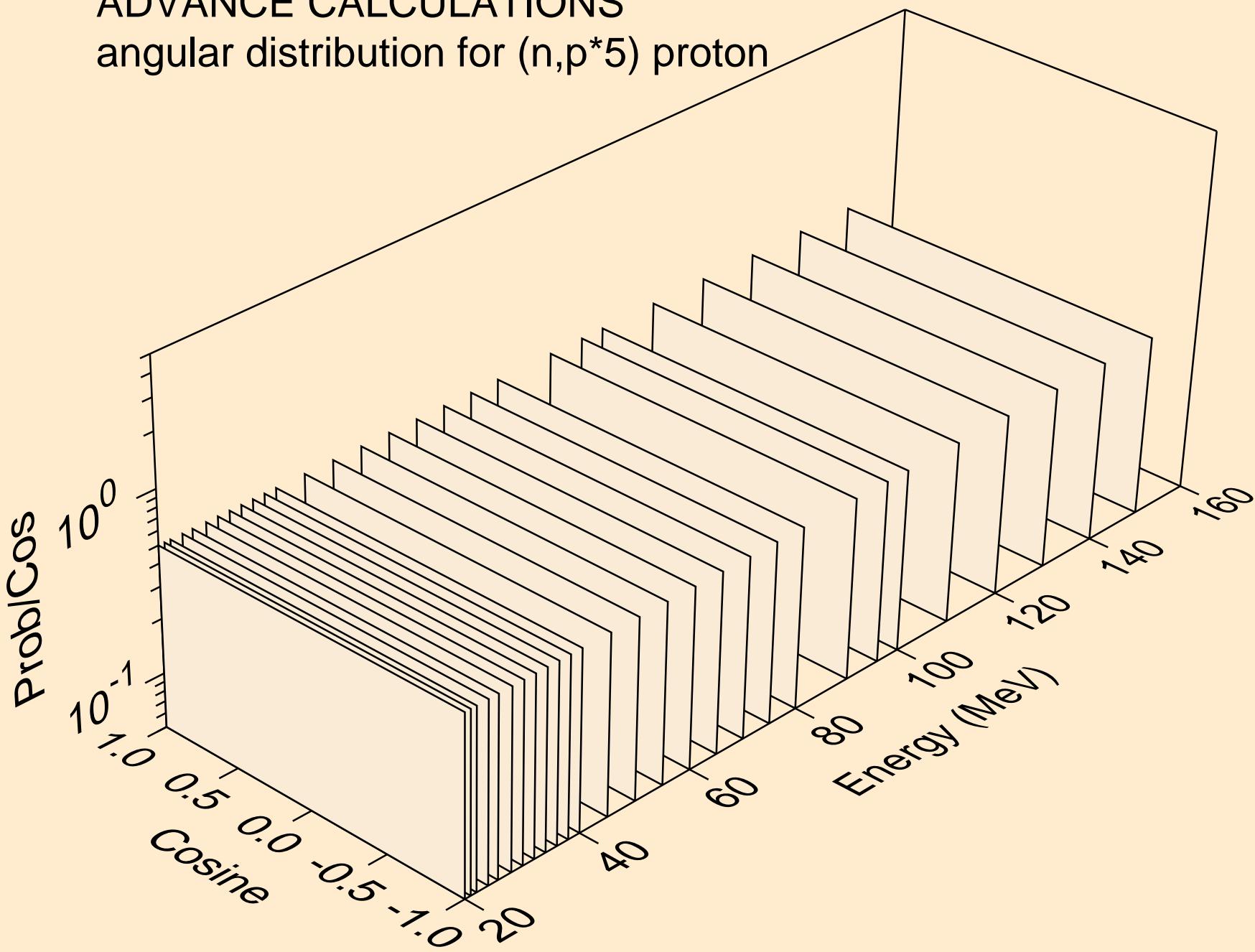
# ADVANCE CALCULATIONS

## angular distribution for (n,p\*5) proton



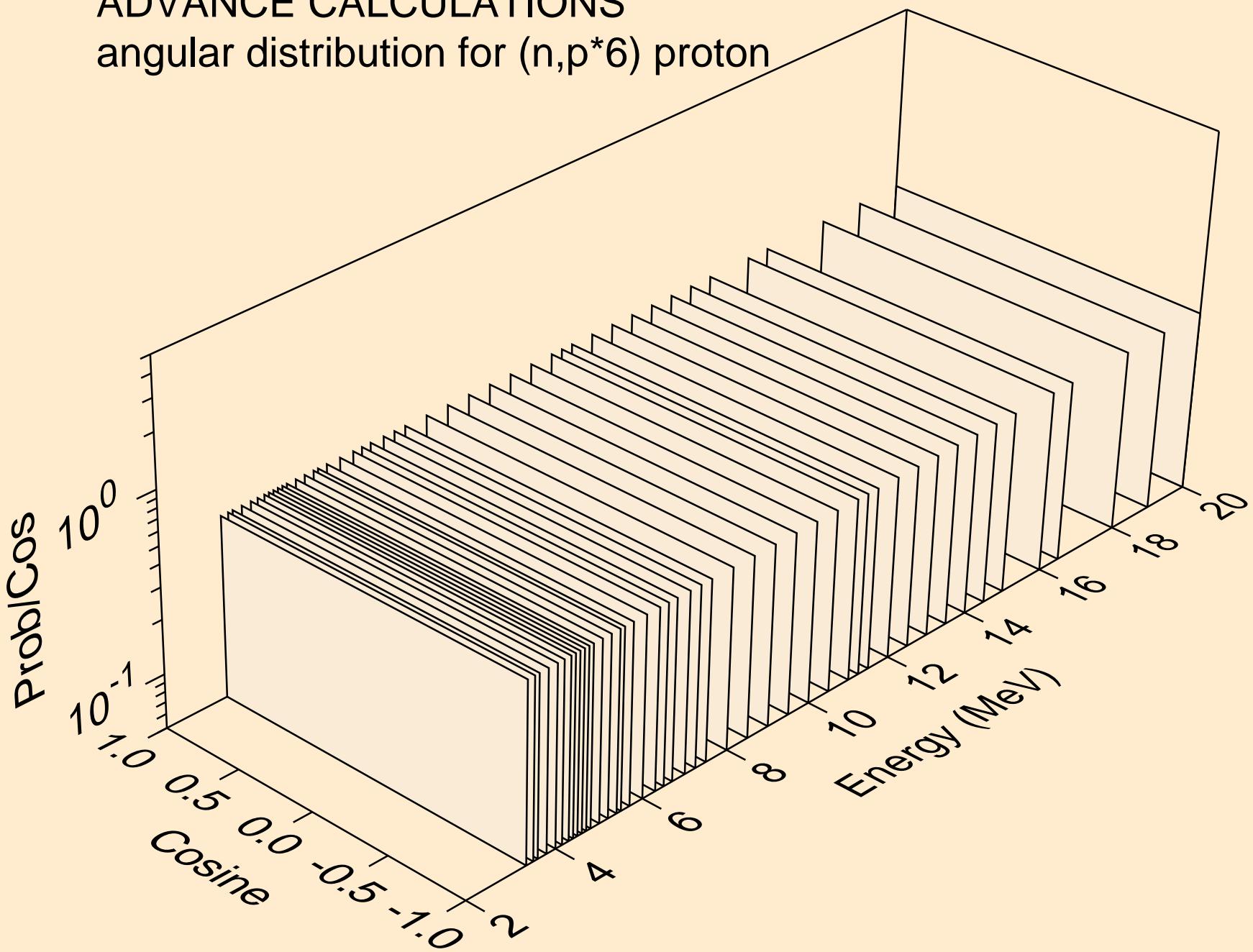
# ADVANCE CALCULATIONS

## angular distribution for ( $n,p^*5$ ) proton



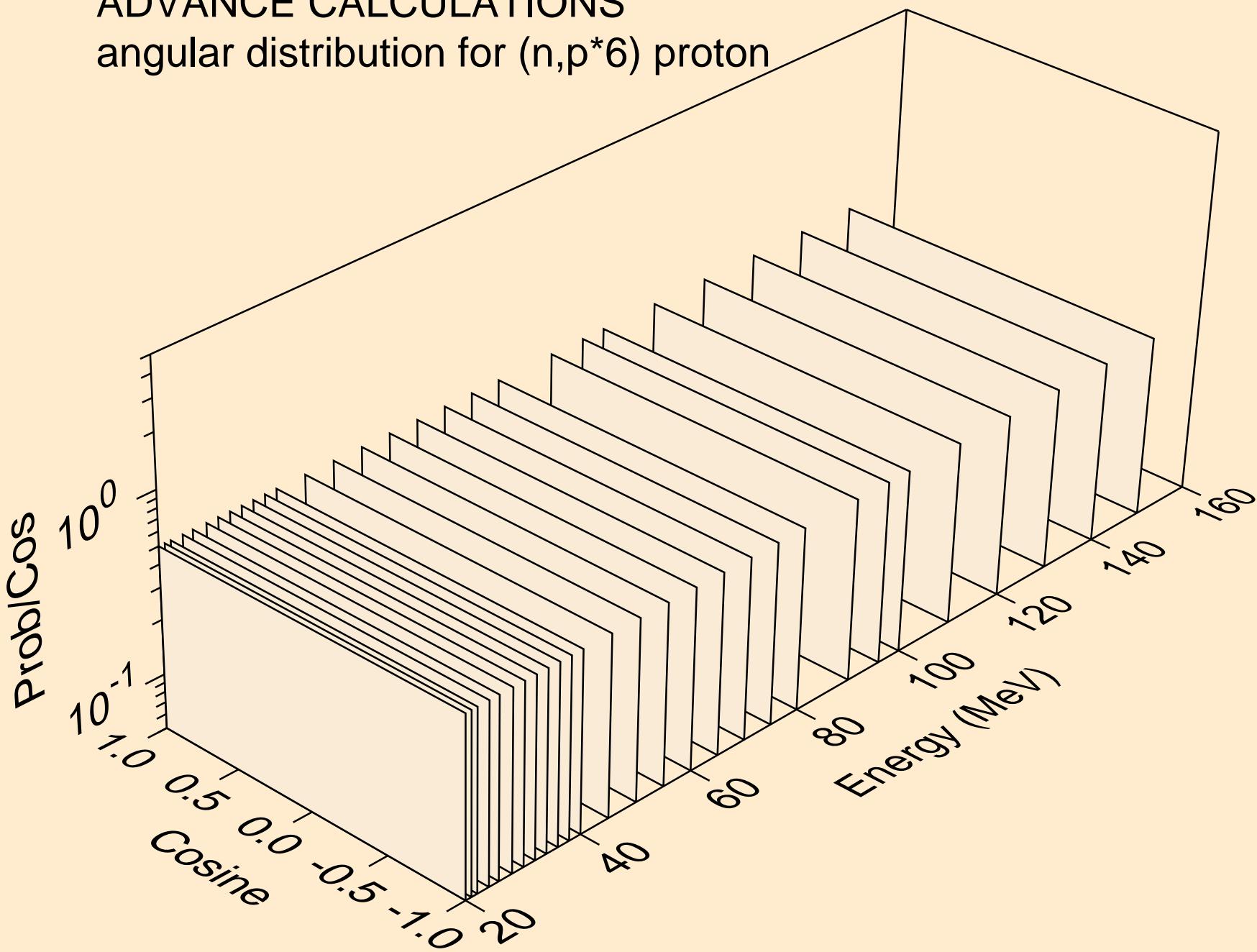
# ADVANCE CALCULATIONS

## angular distribution for $(n,p^*6)$ proton



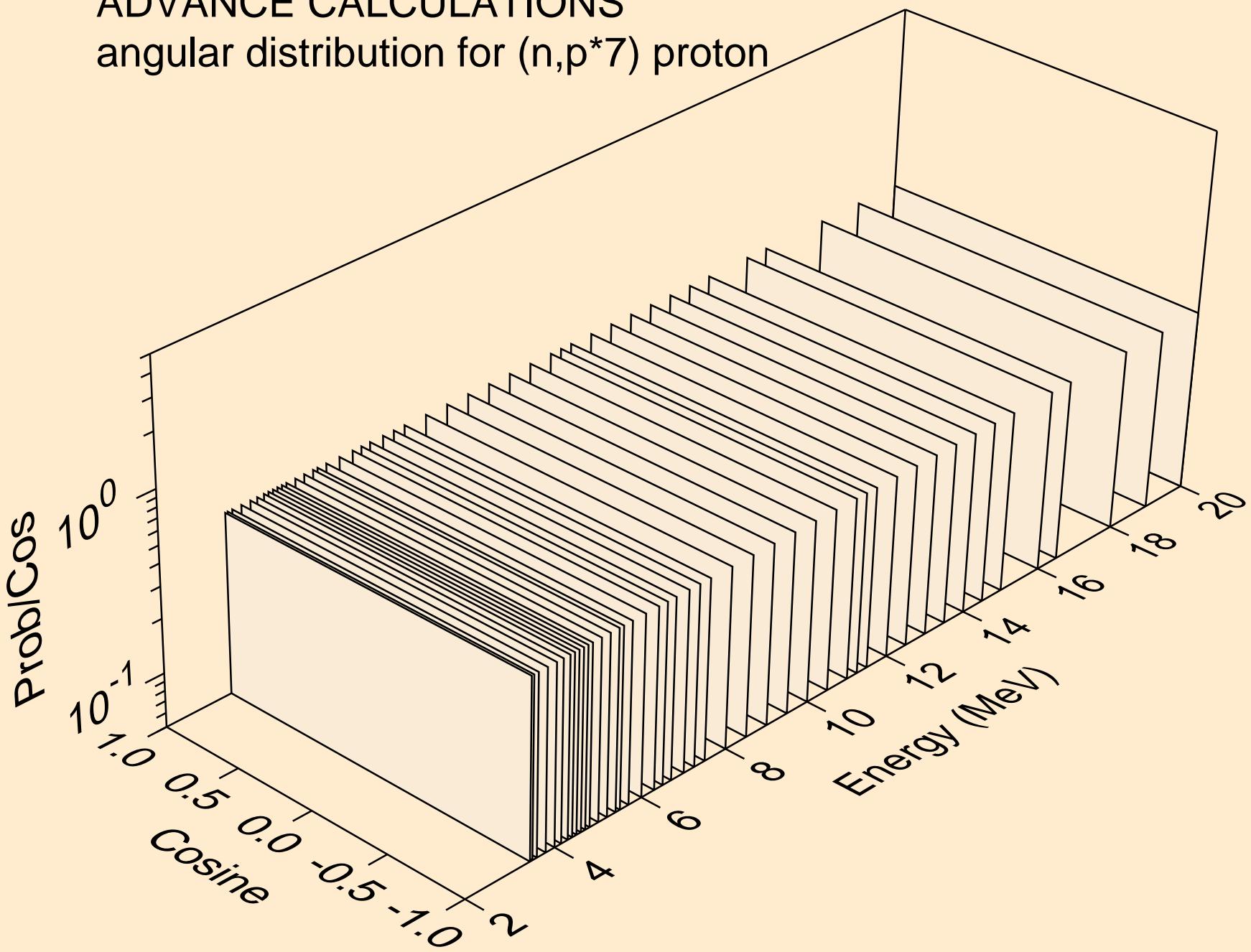
# ADVANCE CALCULATIONS

## angular distribution for (n,p\*6) proton



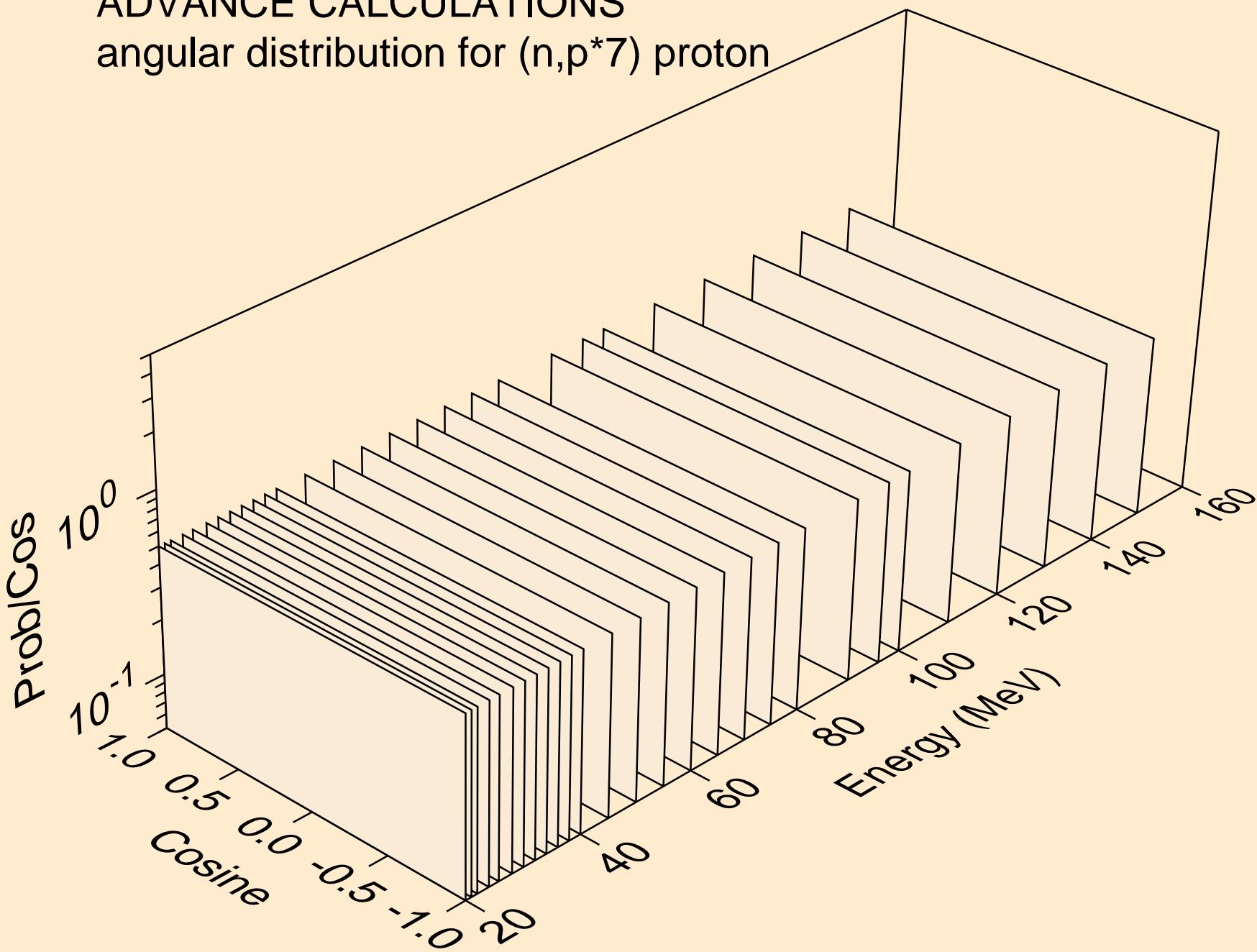
# ADVANCE CALCULATIONS

## angular distribution for ( $n,p^*7$ ) proton



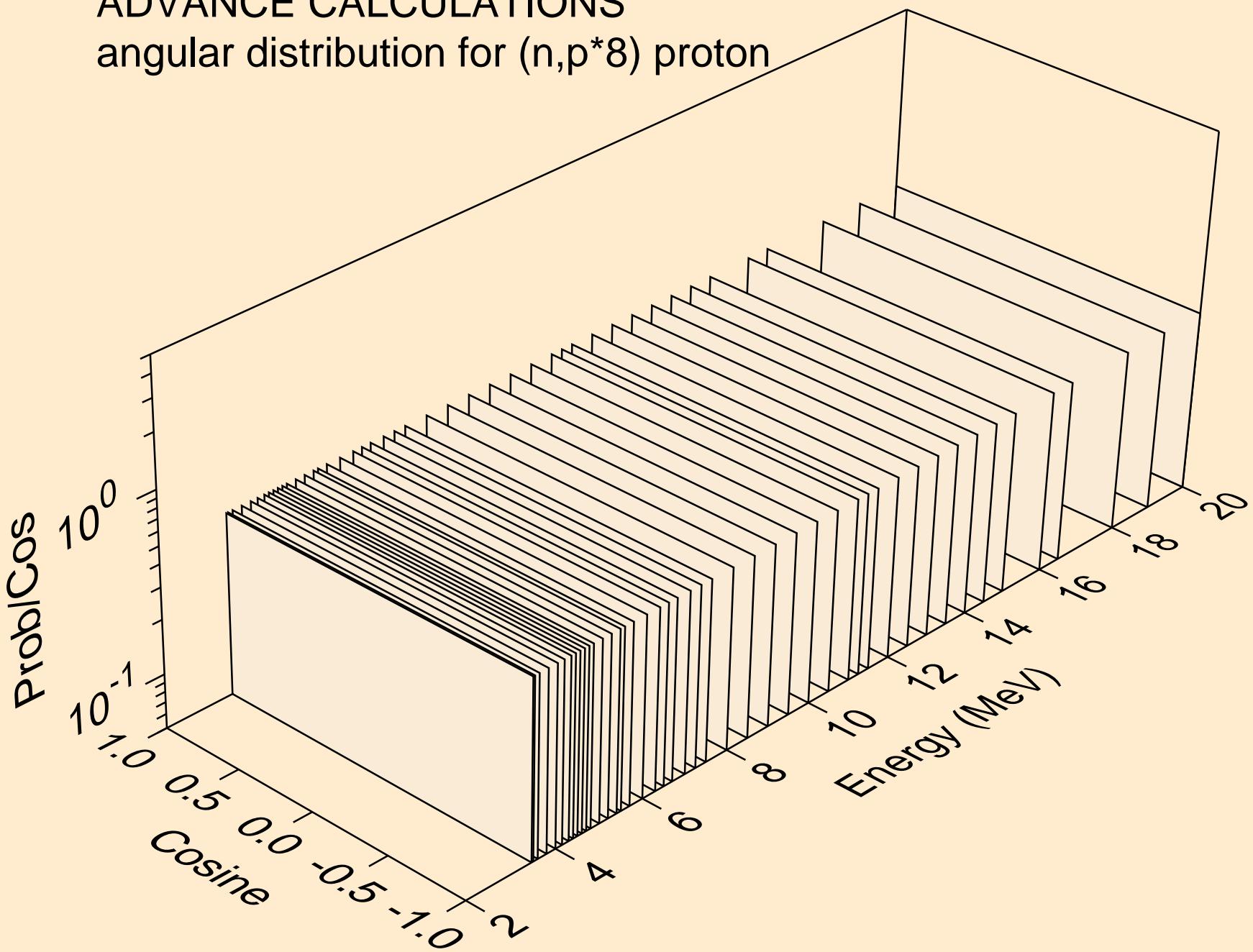
# ADVANCE CALCULATIONS

## angular distribution for ( $n,p^*7$ ) proton



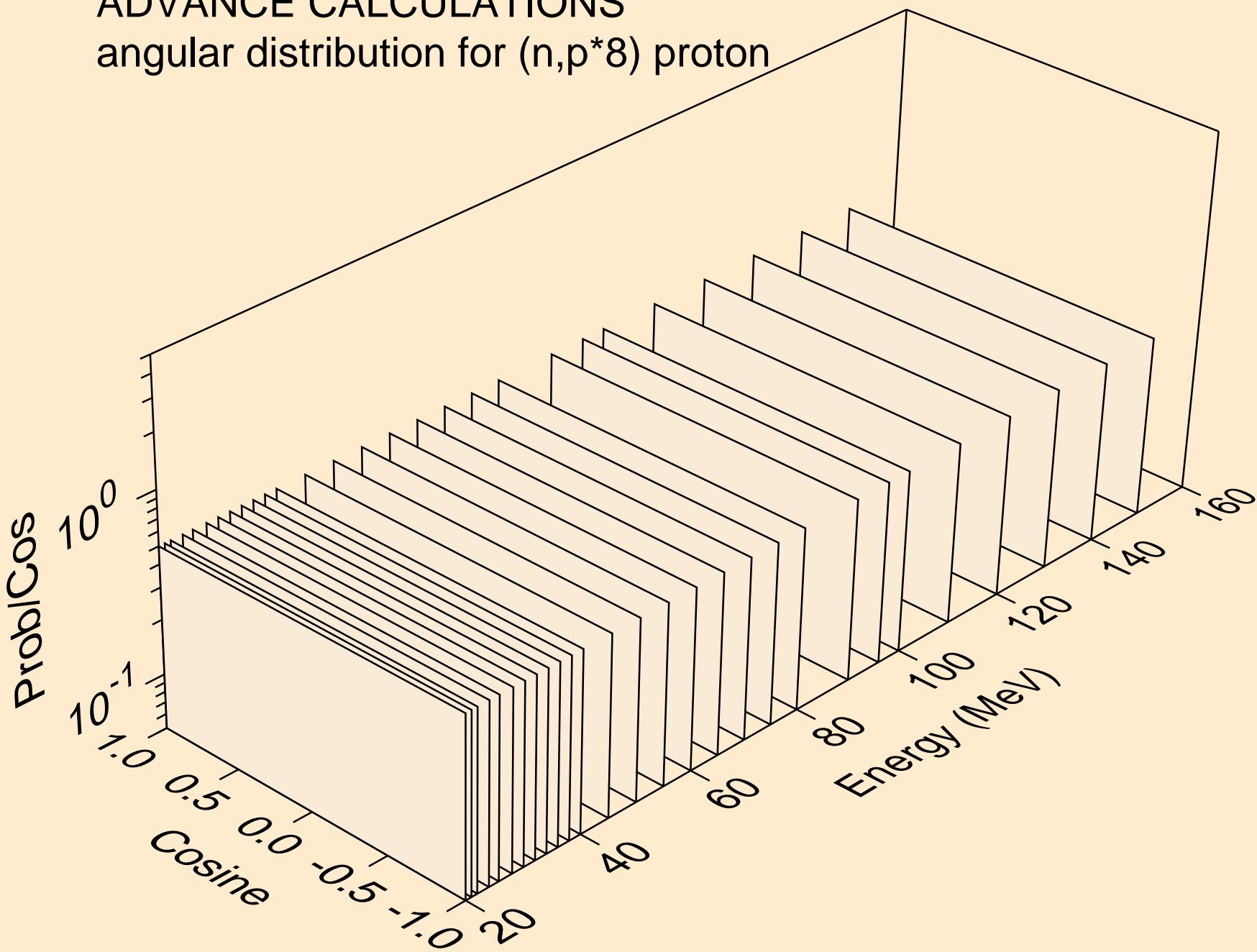
# ADVANCE CALCULATIONS

## angular distribution for (n,p\*8) proton



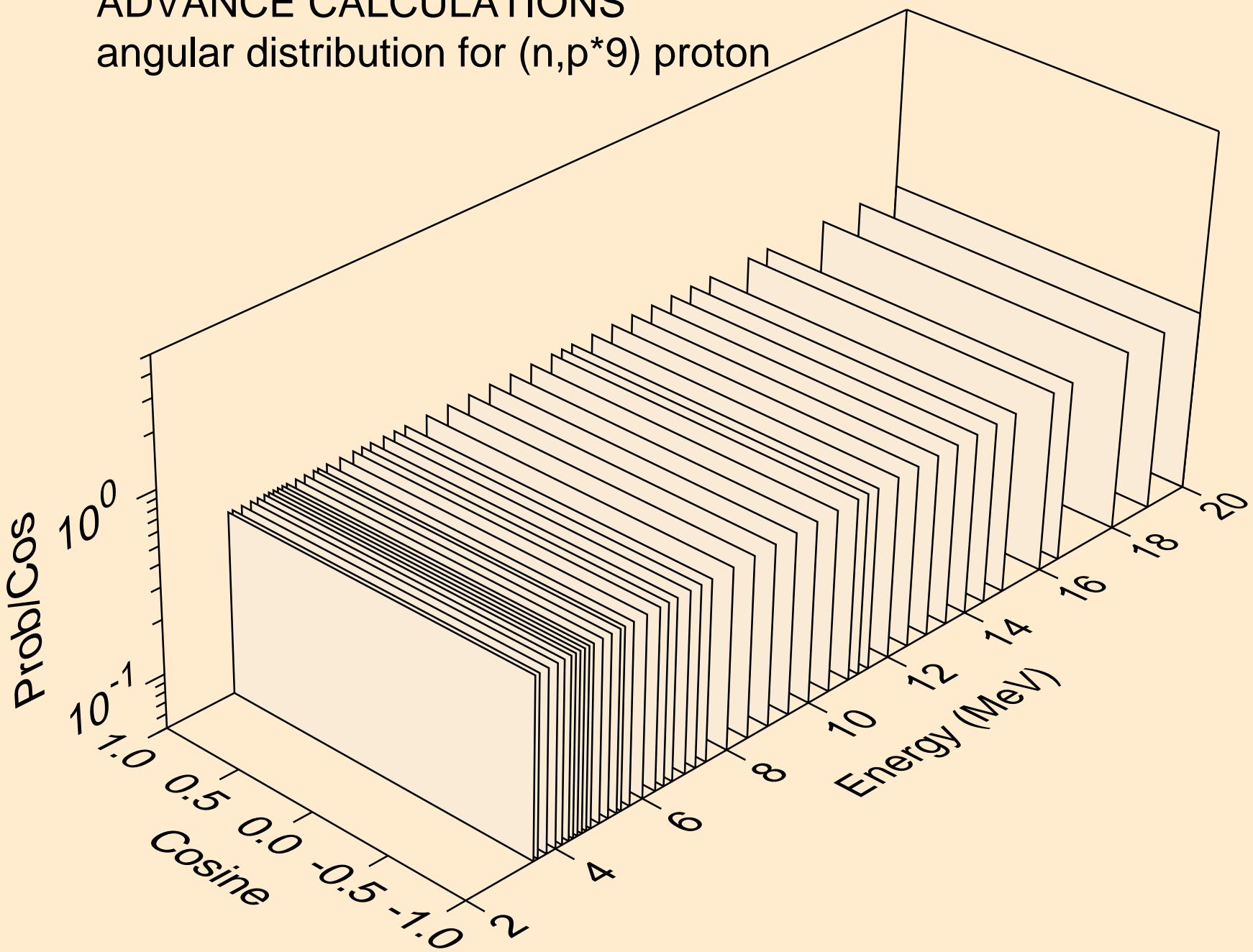
# ADVANCE CALCULATIONS

## angular distribution for (n,p\*8) proton



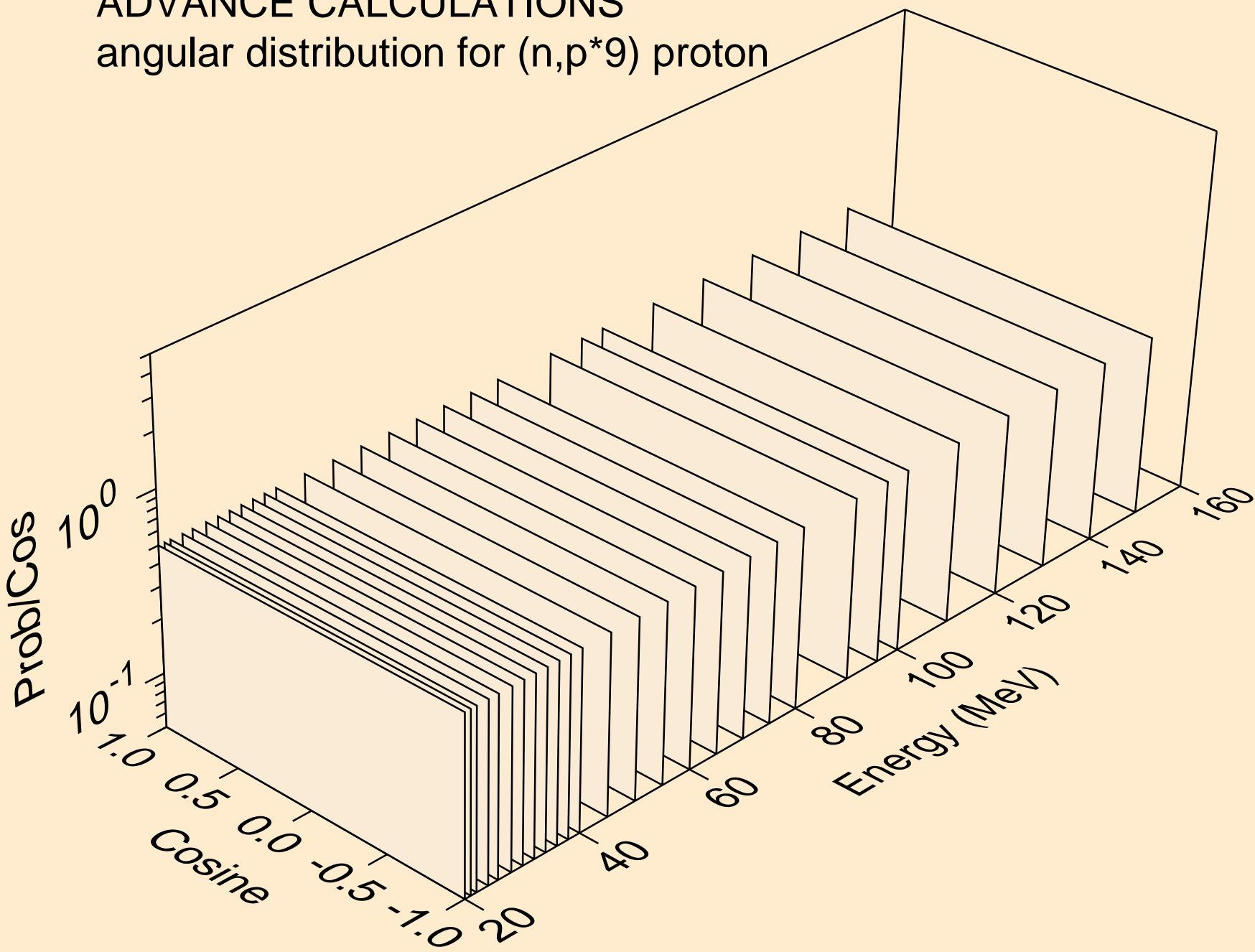
# ADVANCE CALCULATIONS

## angular distribution for $(n,p^*)9$ proton



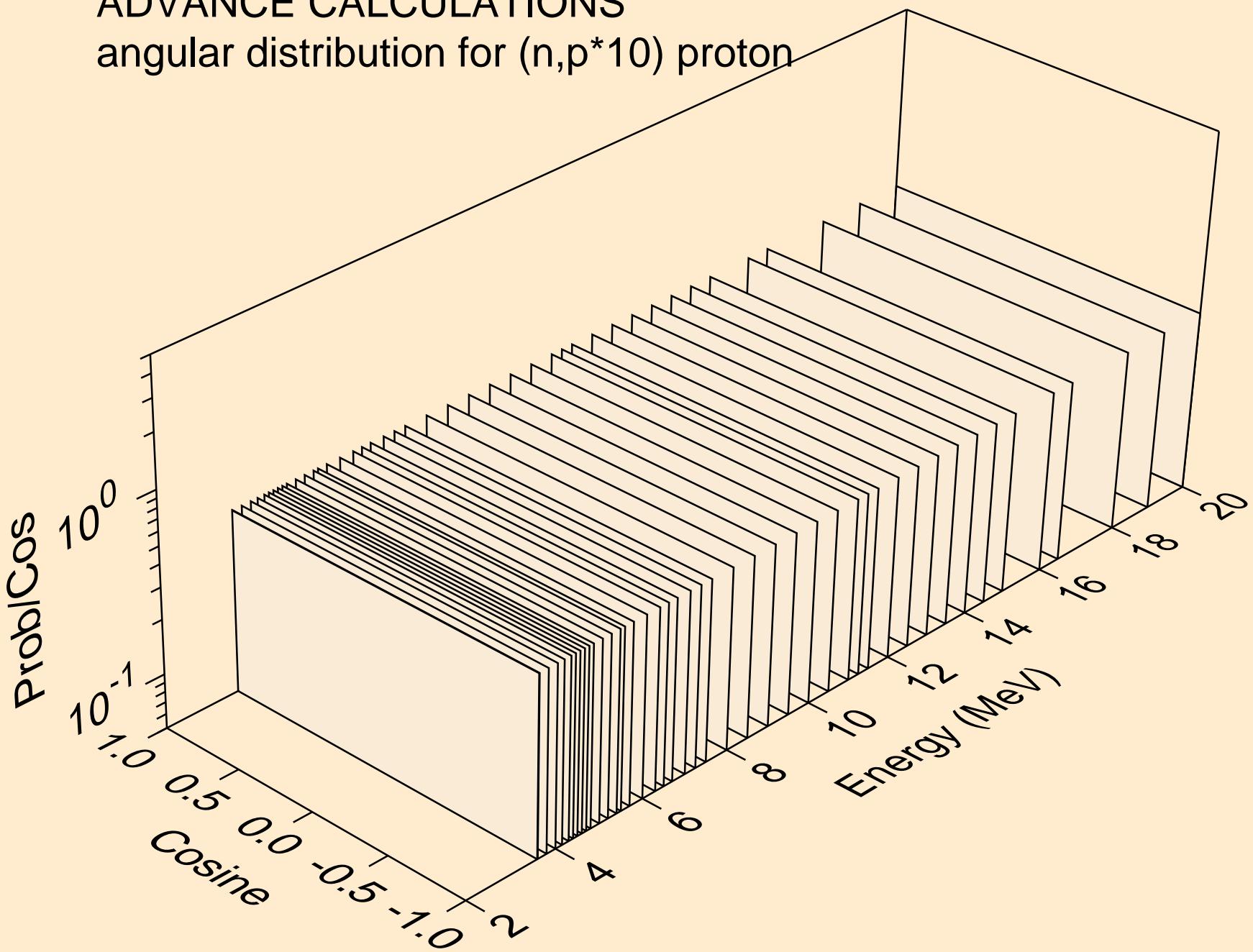
# ADVANCE CALCULATIONS

## angular distribution for (n,p\*9) proton



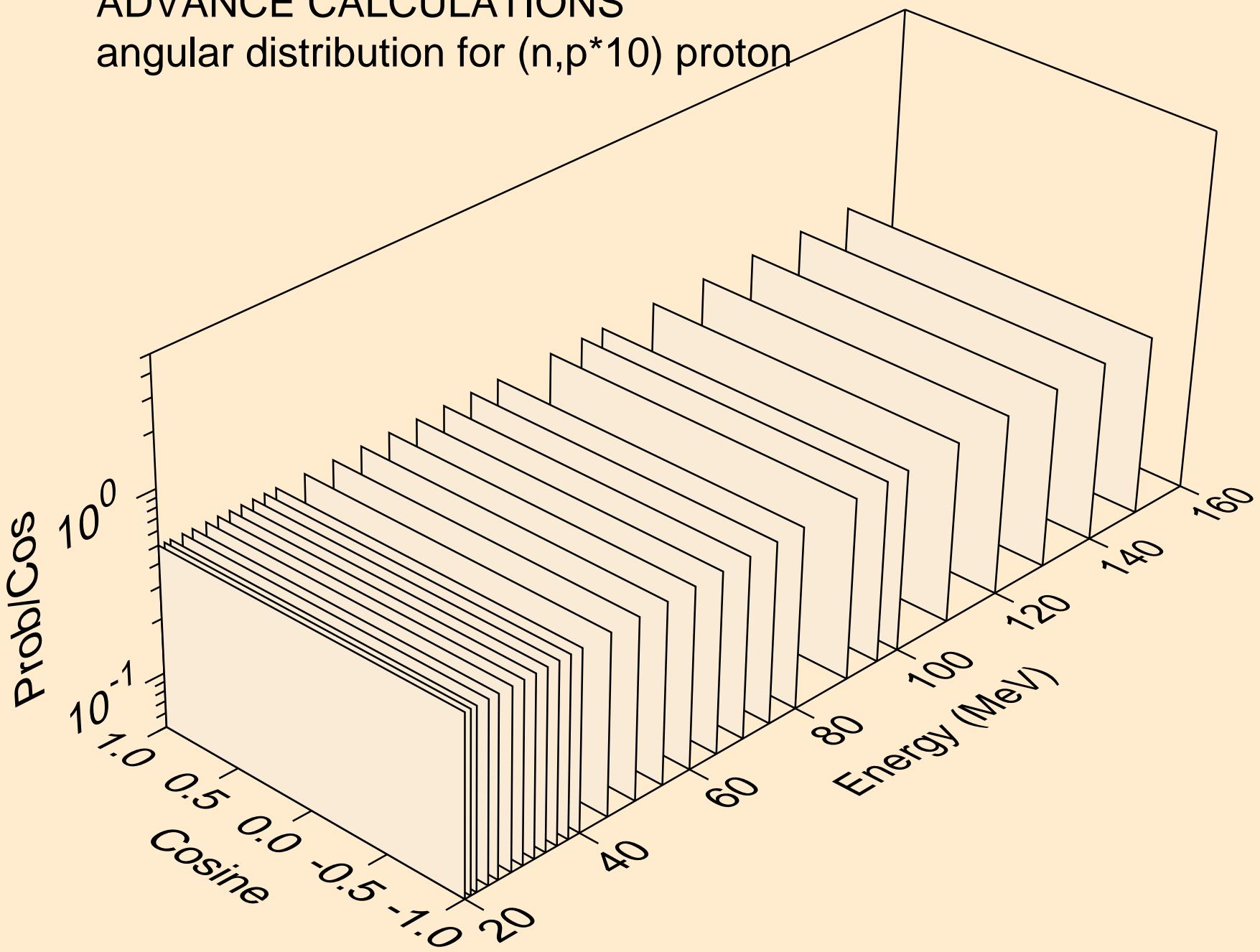
# ADVANCE CALCULATIONS

## angular distribution for (n,p\*10) proton



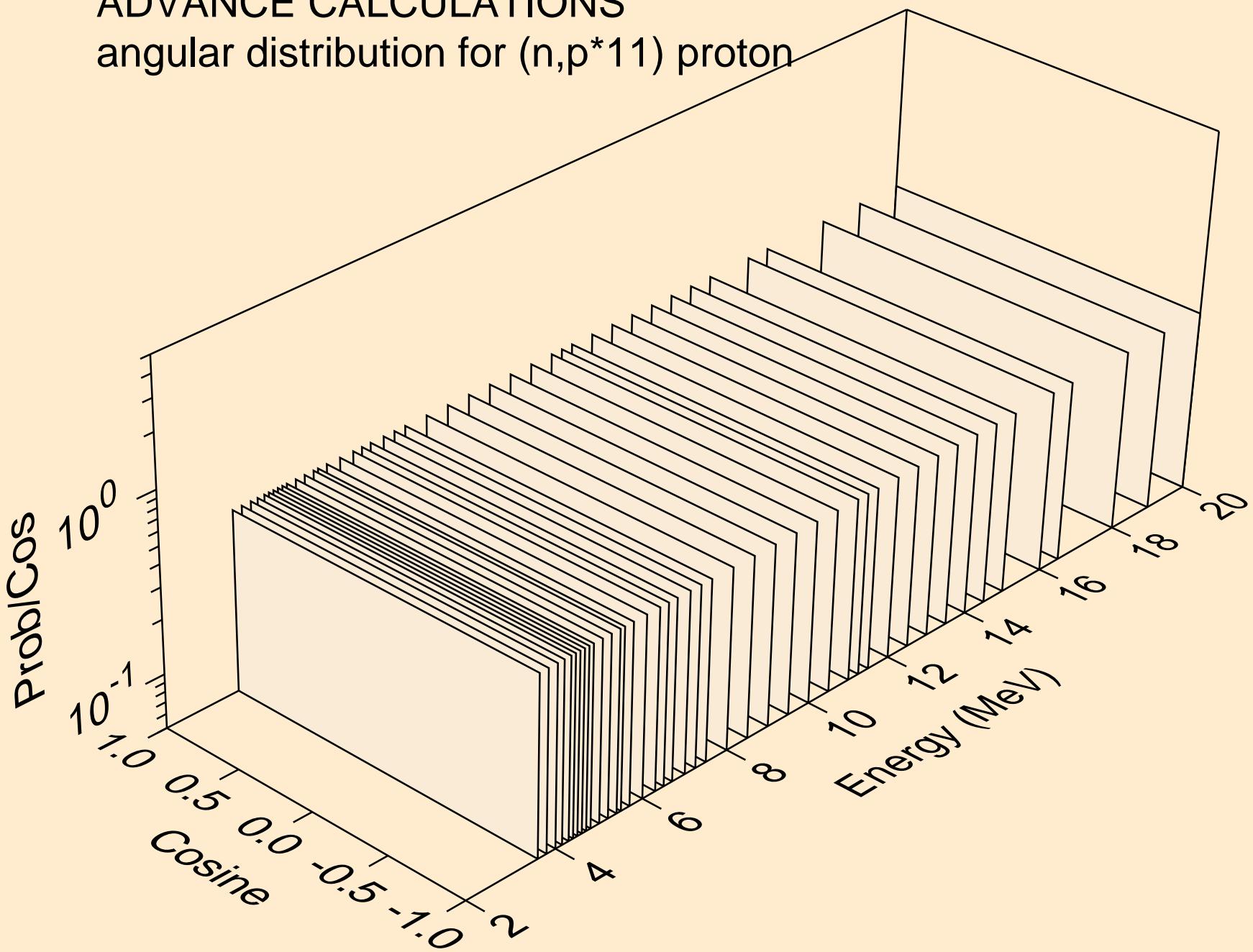
# ADVANCE CALCULATIONS

## angular distribution for (n,p\*10) proton



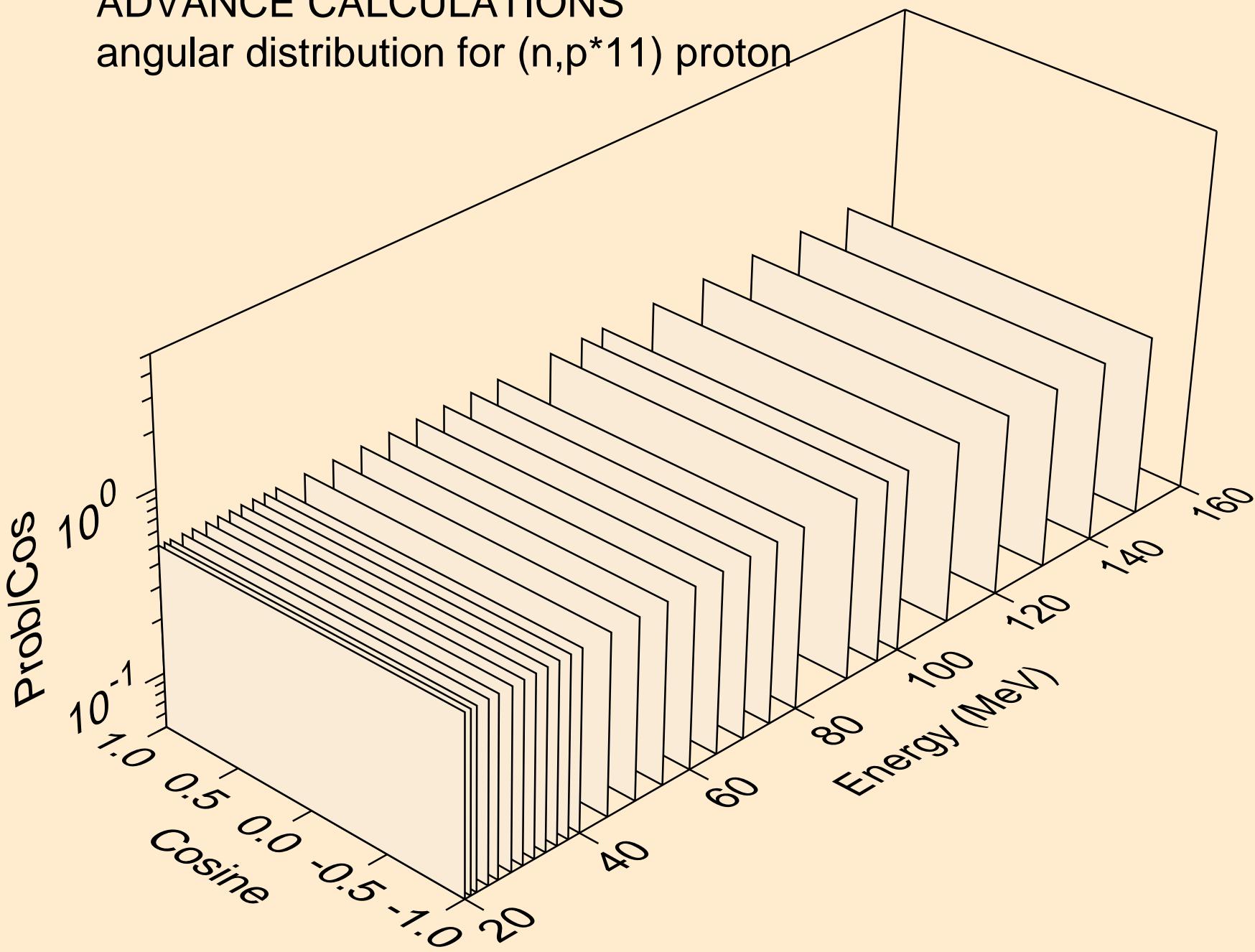
# ADVANCE CALCULATIONS

## angular distribution for ( $n,p^*11$ ) proton



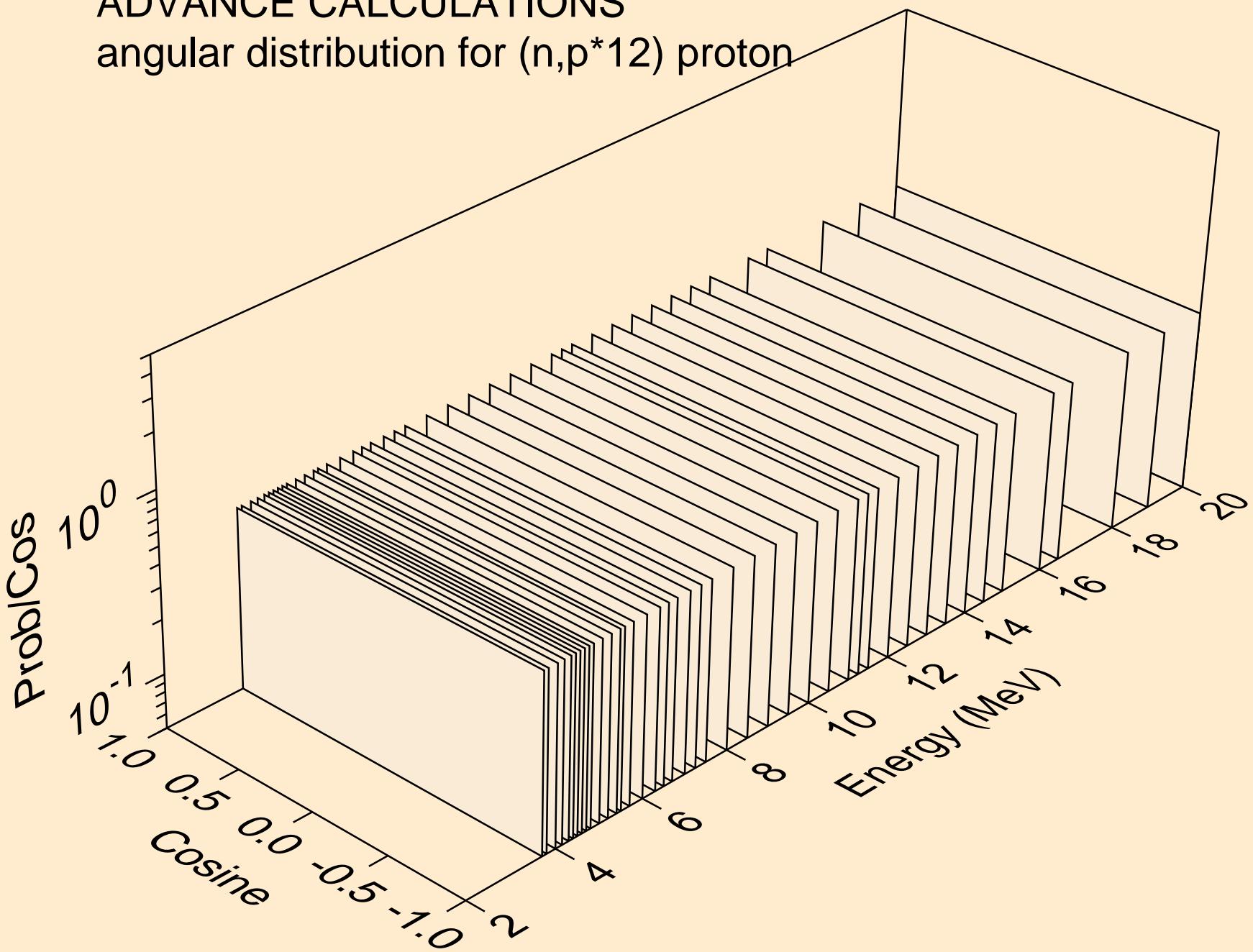
# ADVANCE CALCULATIONS

## angular distribution for ( $n,p^*11$ ) proton



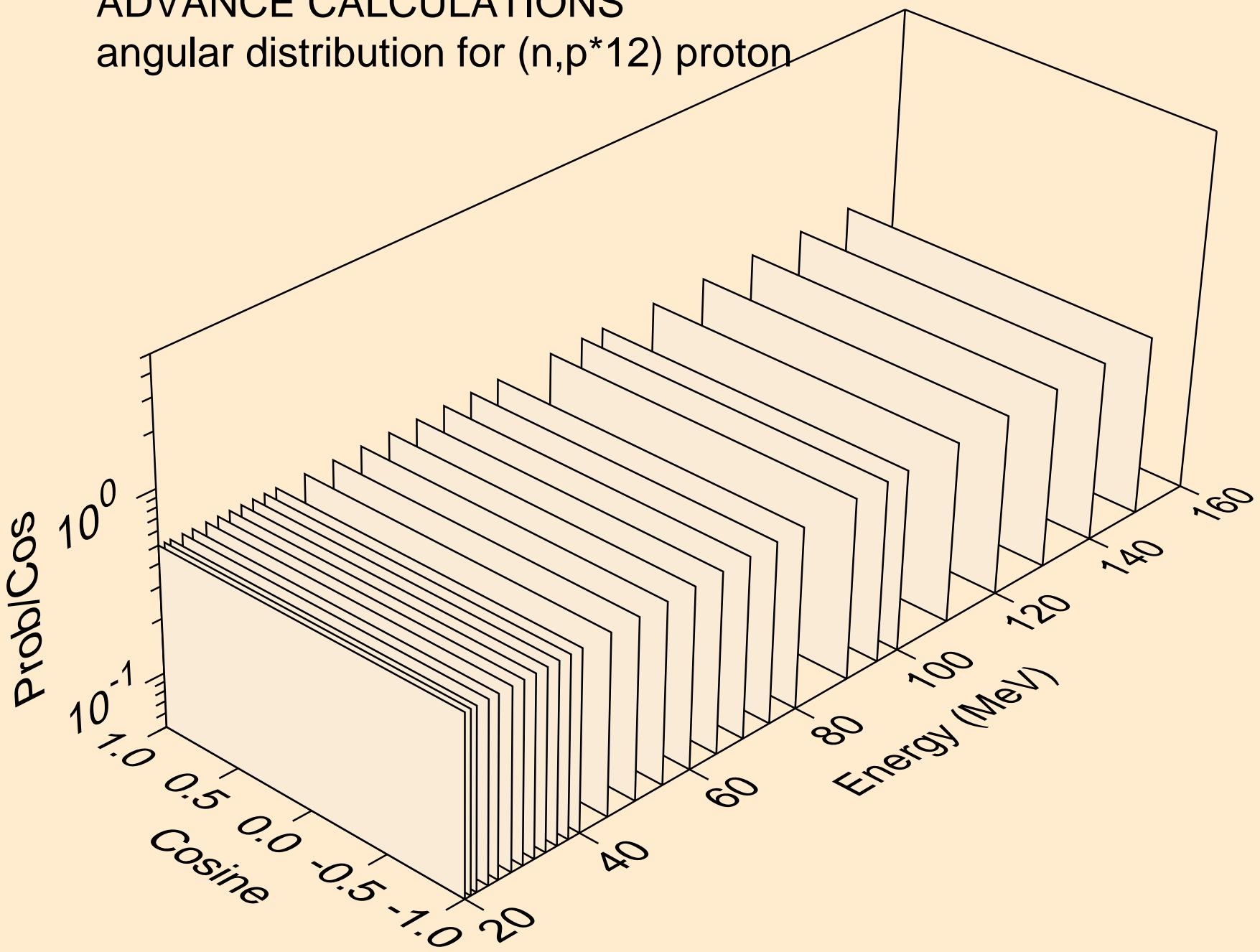
# ADVANCE CALCULATIONS

## angular distribution for ( $n,p^*12$ ) proton



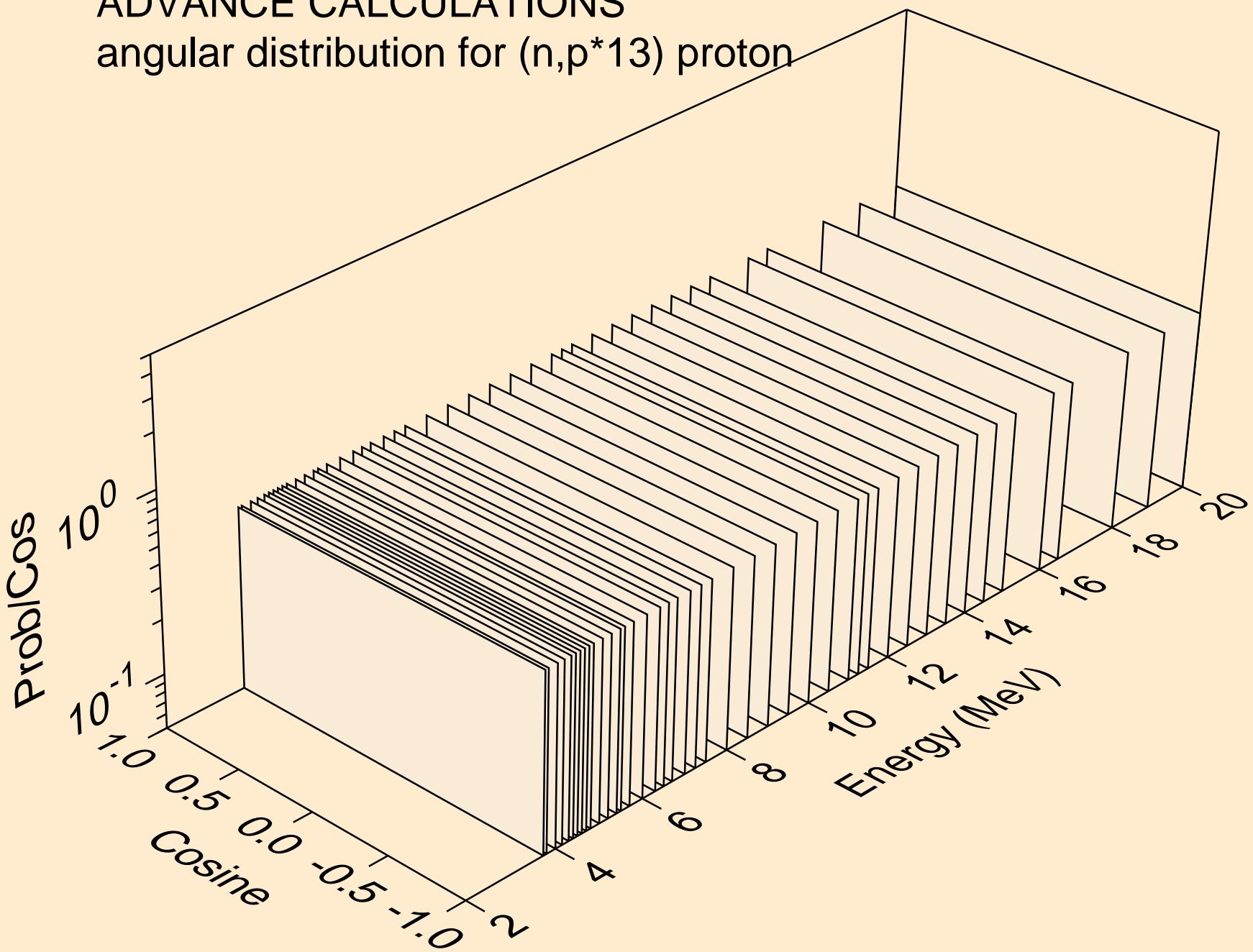
# ADVANCE CALCULATIONS

## angular distribution for ( $n,p^*12$ ) proton



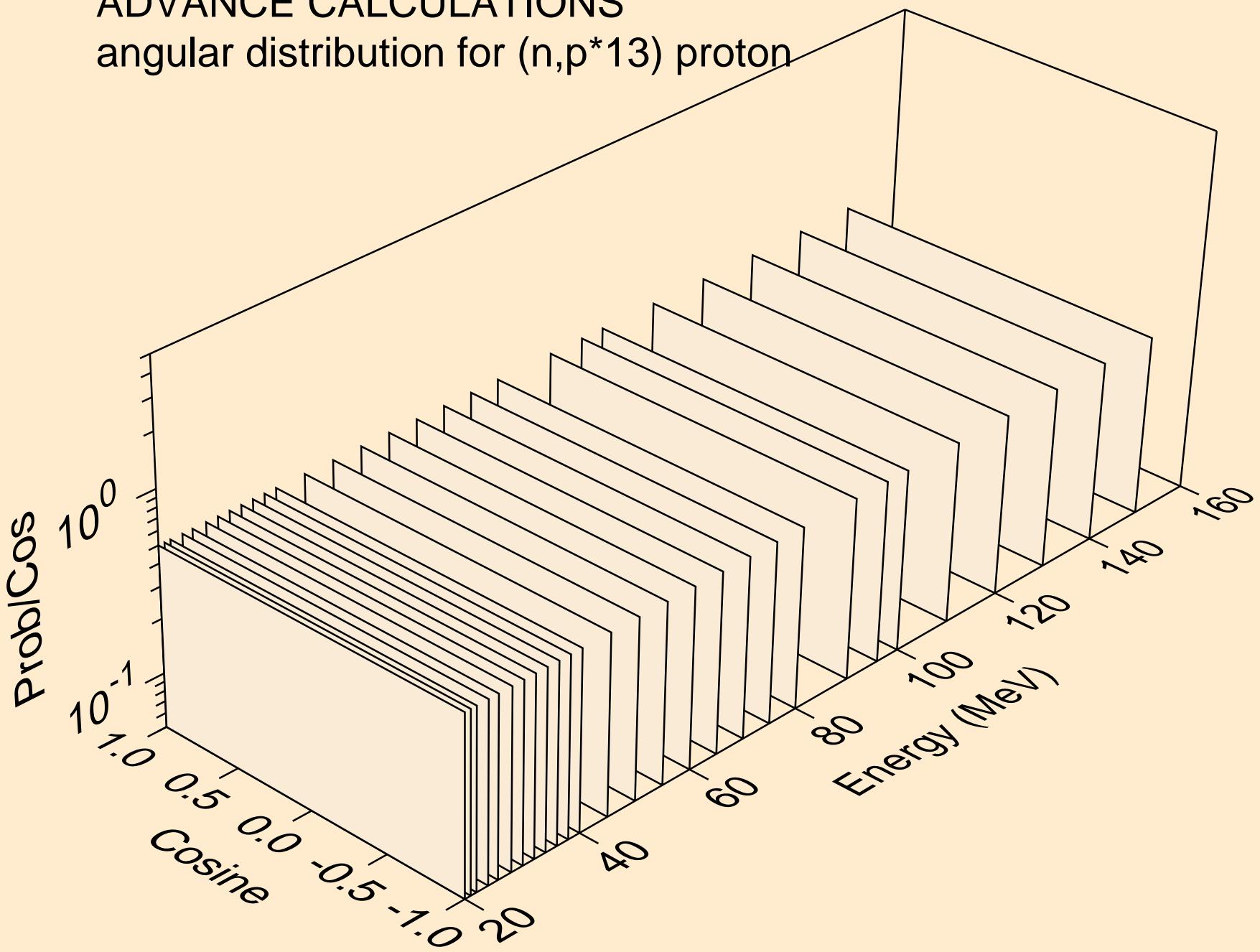
# ADVANCE CALCULATIONS

## angular distribution for ( $n,p^*13$ ) proton



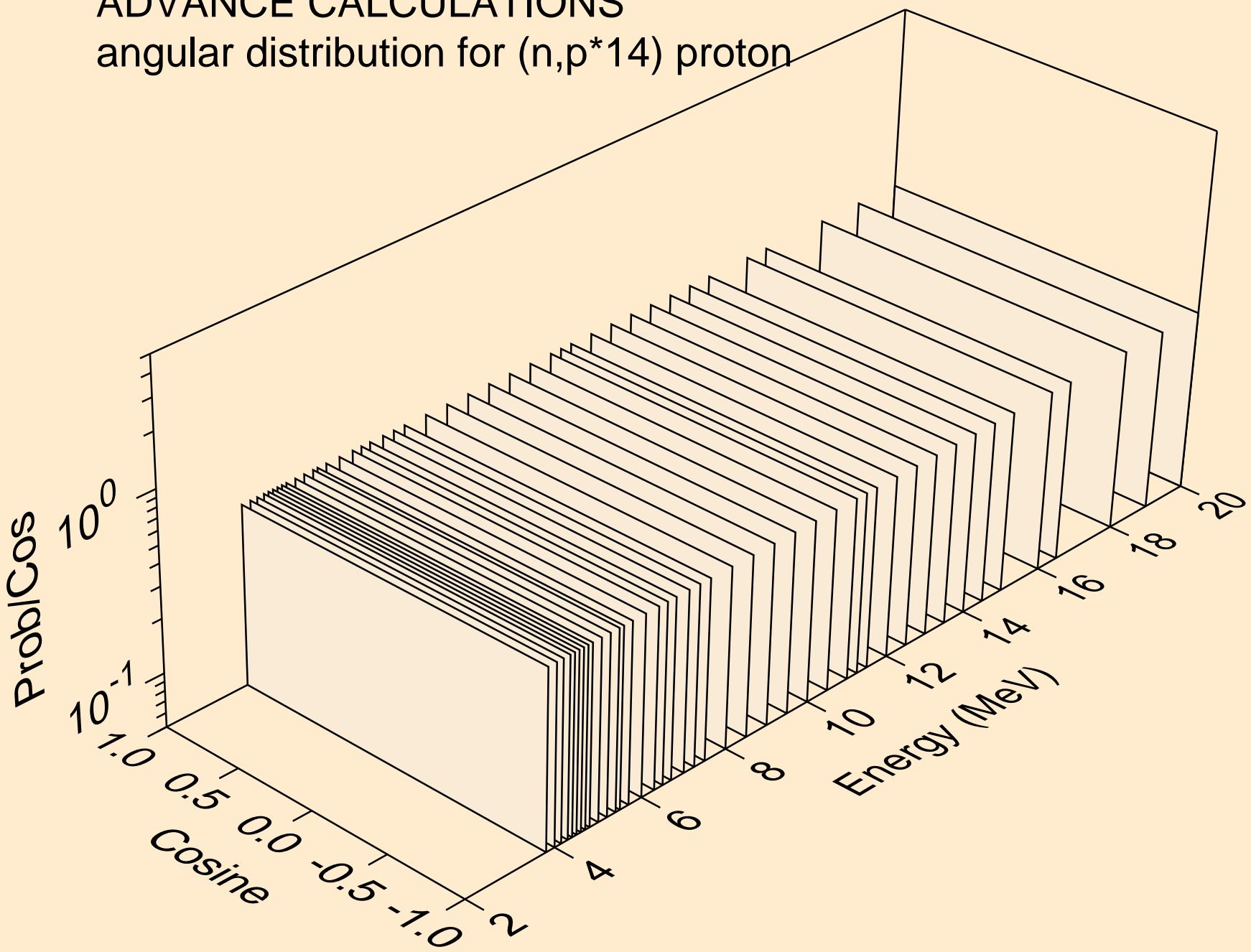
# ADVANCE CALCULATIONS

## angular distribution for ( $n,p^*13$ ) proton



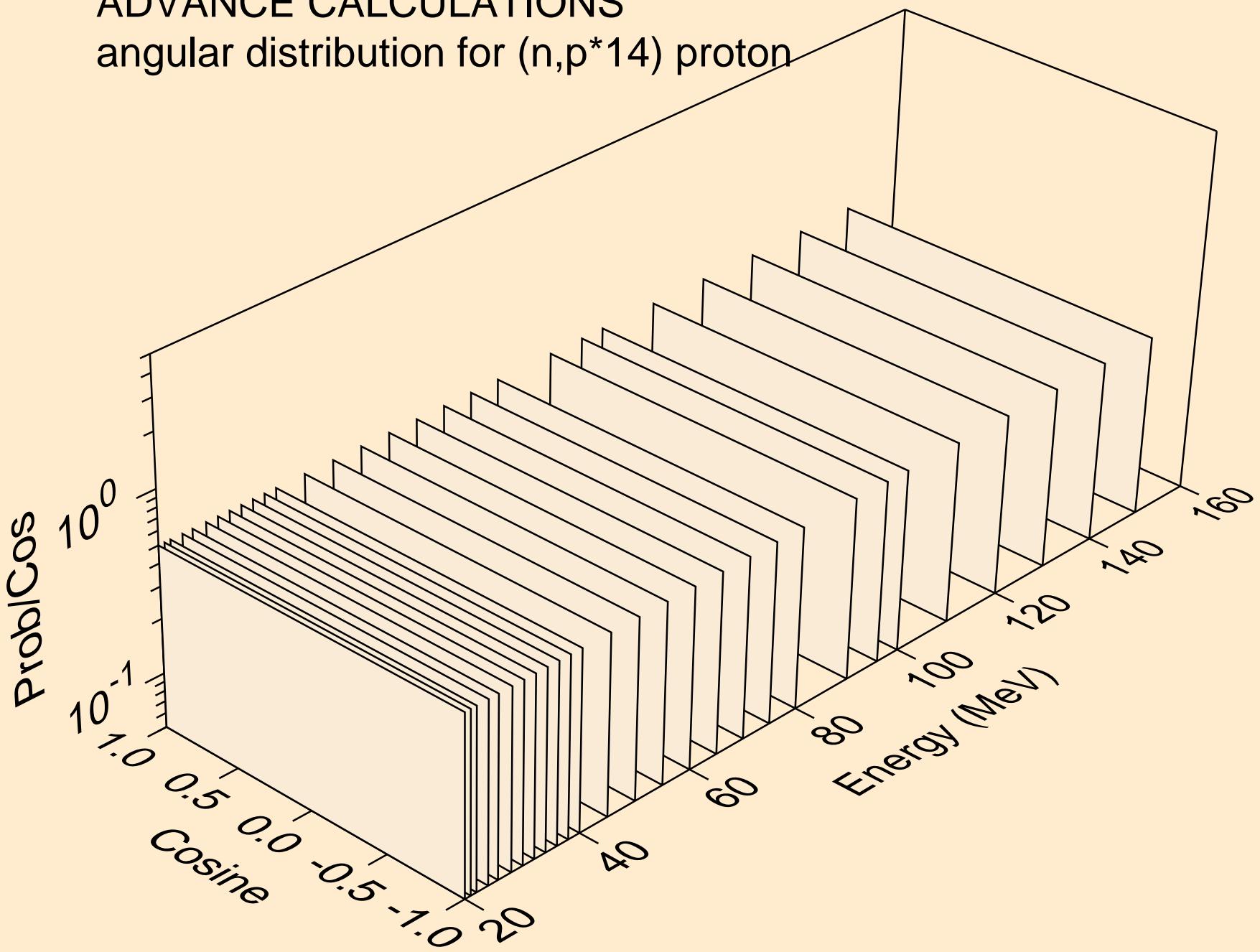
# ADVANCE CALCULATIONS

## angular distribution for ( $n,p^*14$ ) proton



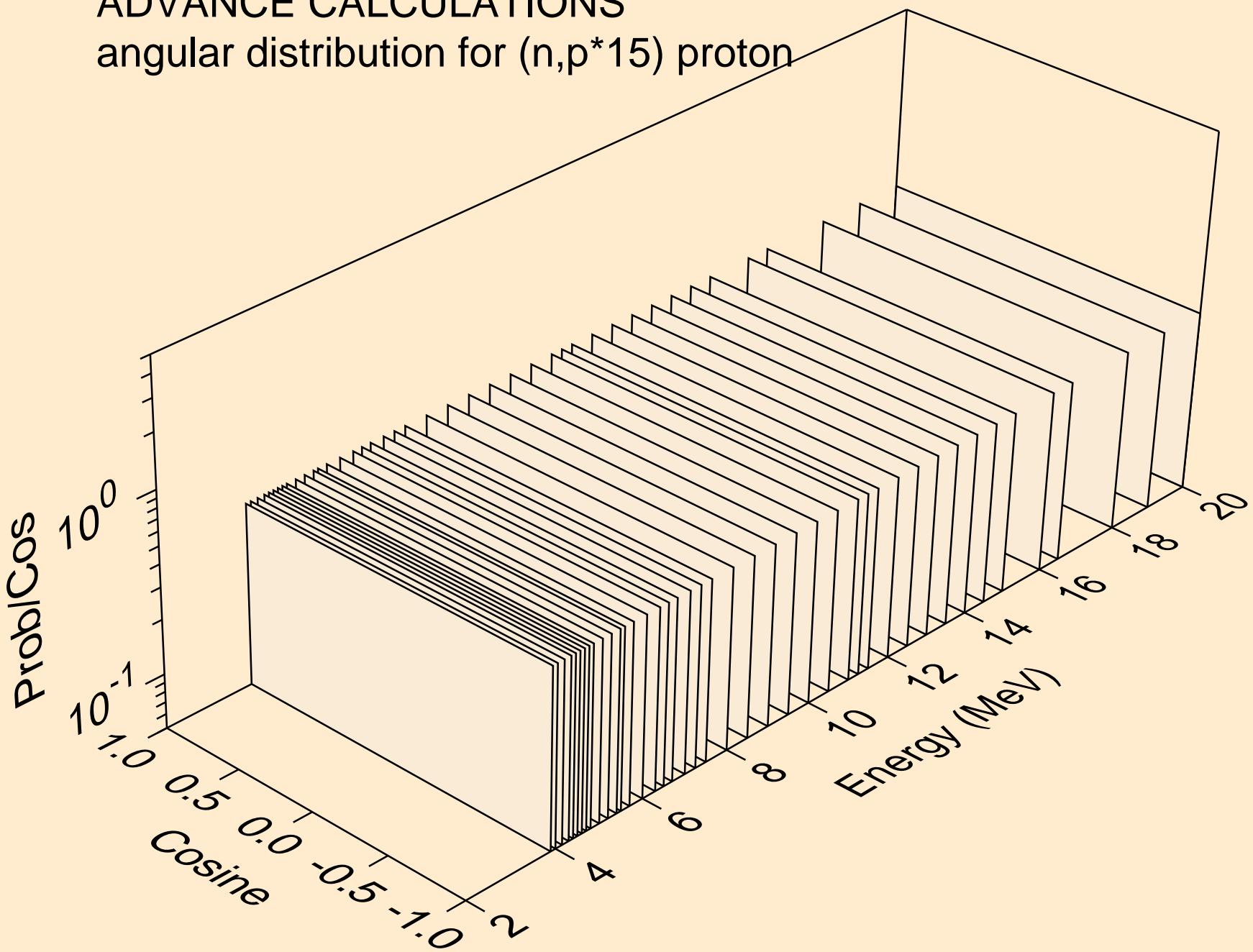
# ADVANCE CALCULATIONS

## angular distribution for ( $n,p^*14$ ) proton



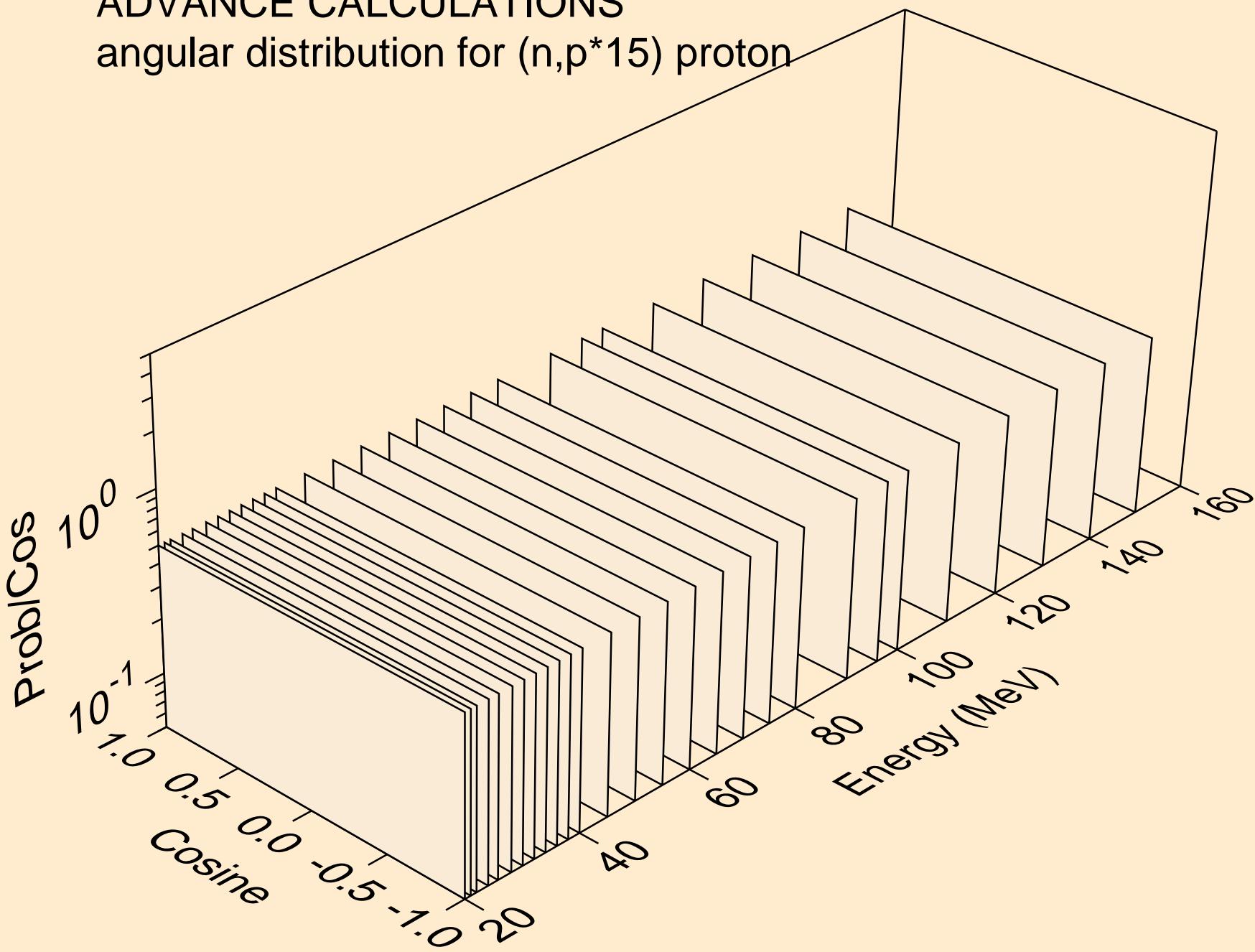
# ADVANCE CALCULATIONS

## angular distribution for ( $n,p^*15$ ) proton



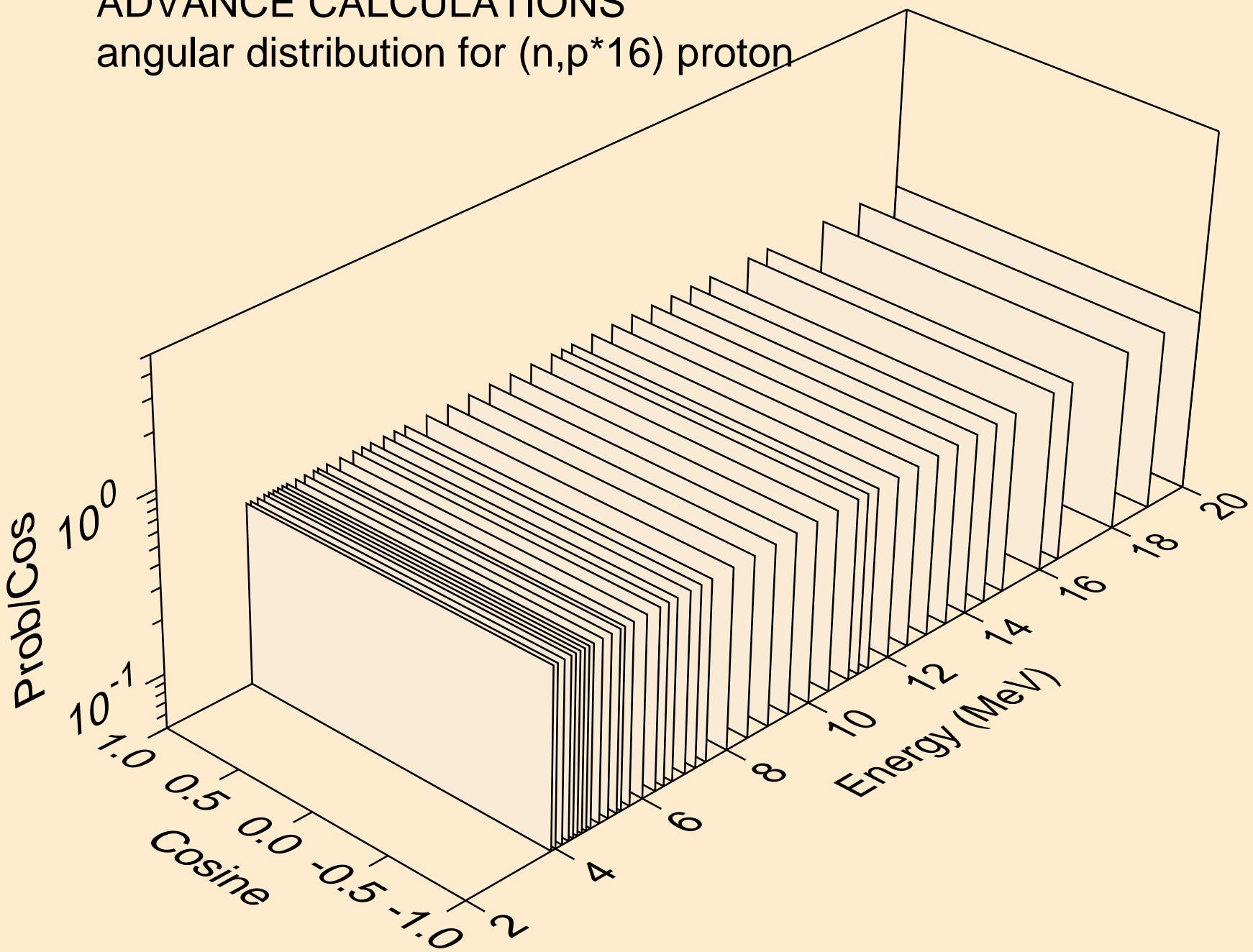
# ADVANCE CALCULATIONS

## angular distribution for ( $n,p^*15$ ) proton



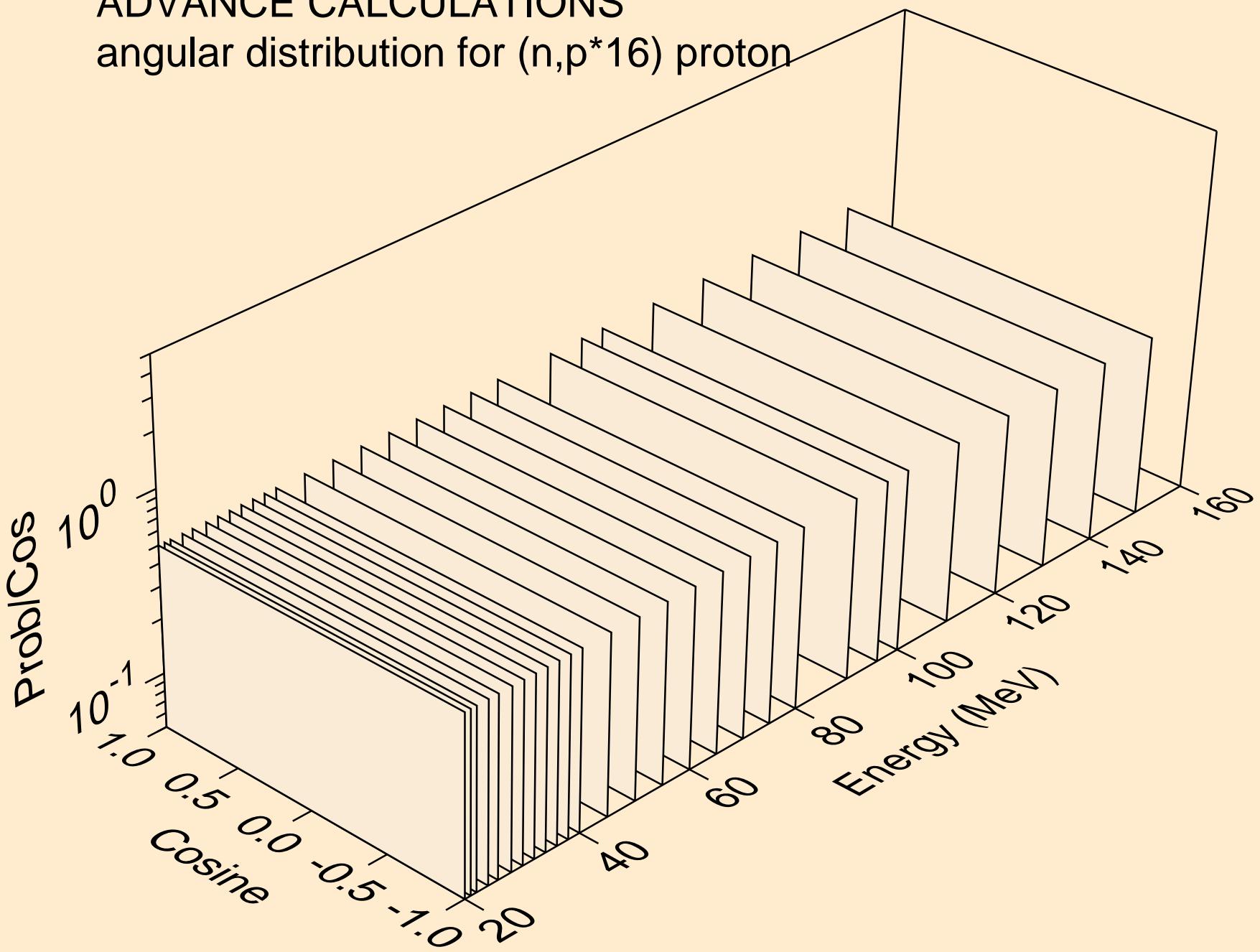
# ADVANCE CALCULATIONS

## angular distribution for ( $n,p^*16$ ) proton



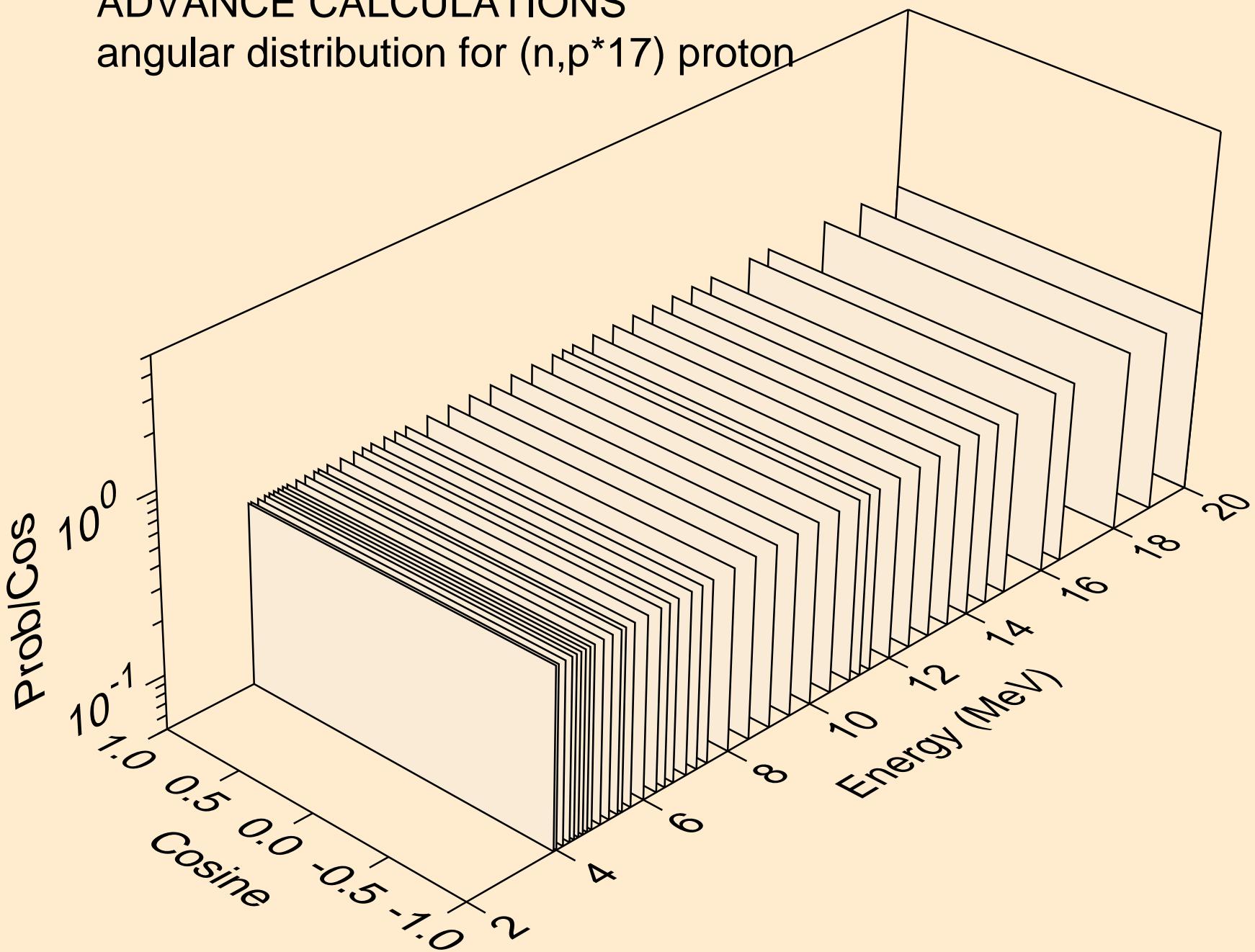
# ADVANCE CALCULATIONS

## angular distribution for ( $n,p^*16$ ) proton



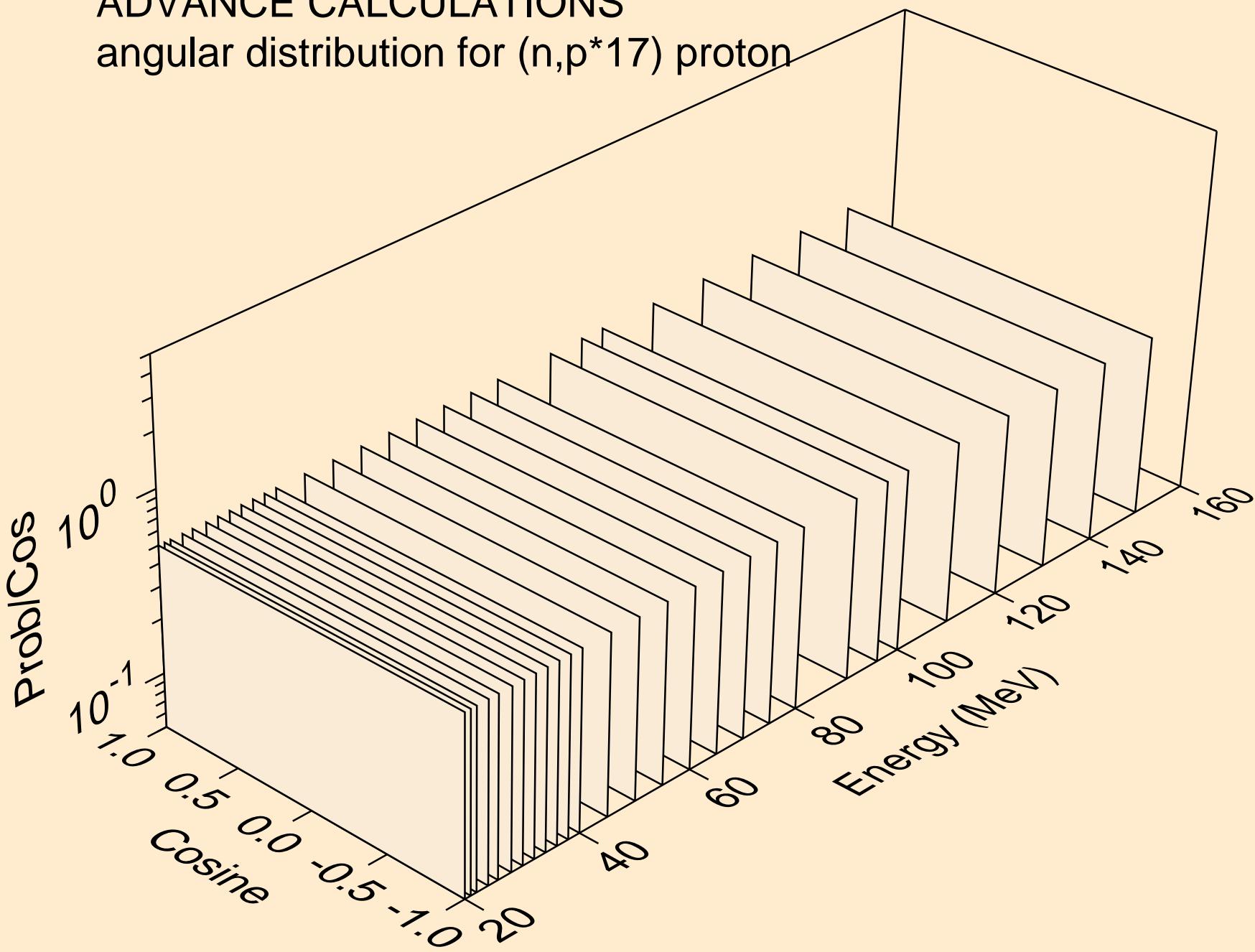
# ADVANCE CALCULATIONS

## angular distribution for ( $n,p^*17$ ) proton



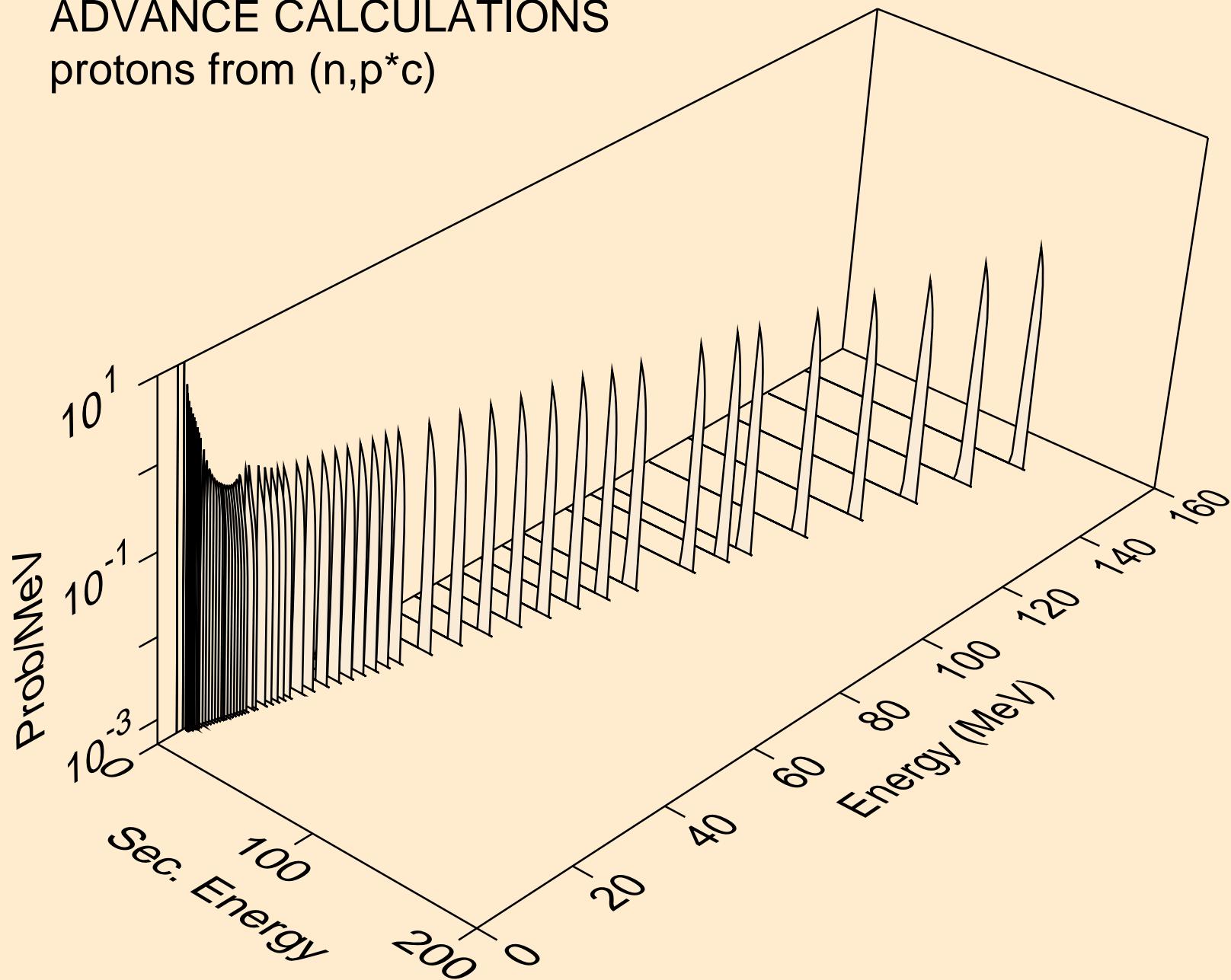
# ADVANCE CALCULATIONS

## angular distribution for ( $n,p^*17$ ) proton



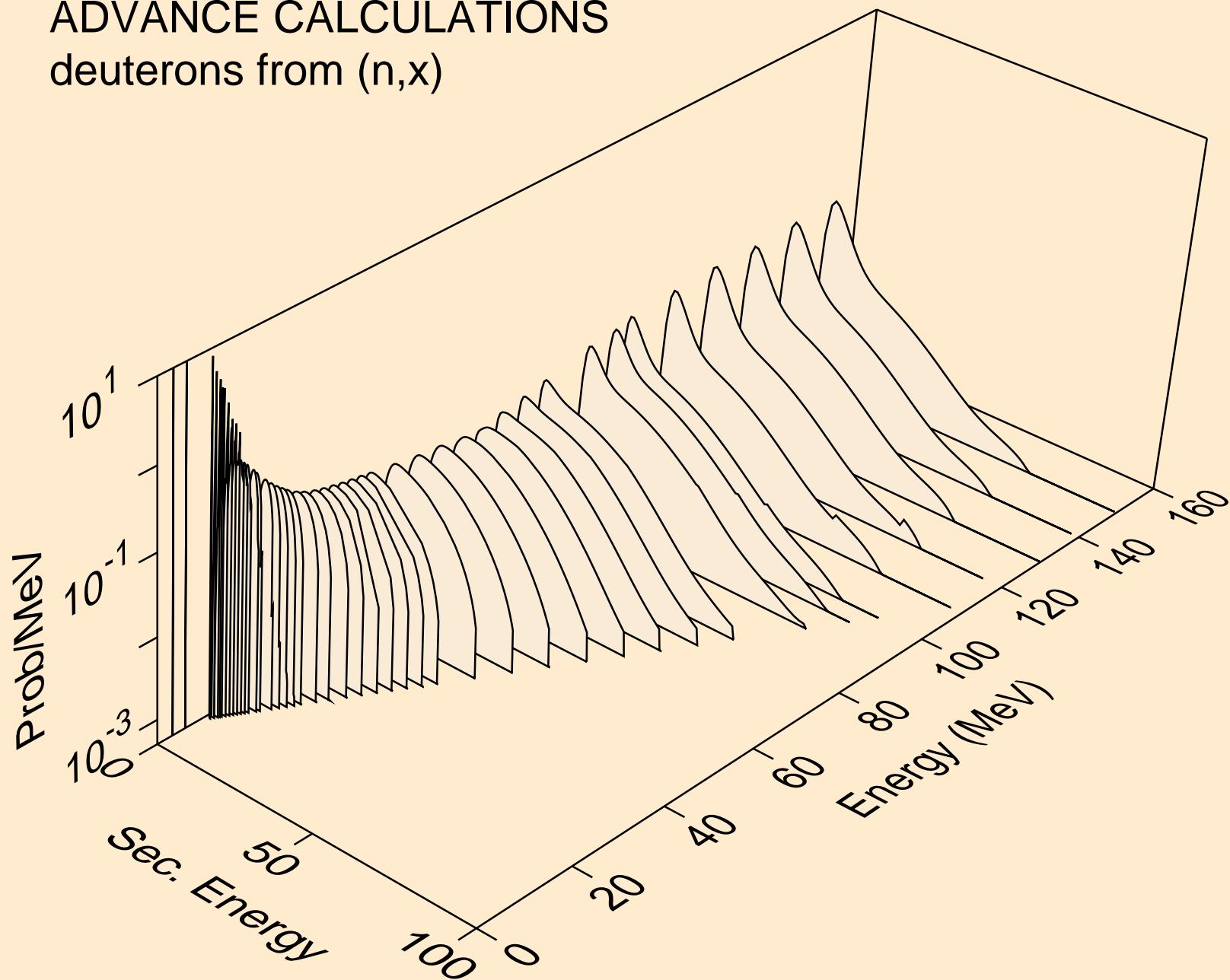
# ADVANCE CALCULATIONS

protons from  $(n,p^*c)$



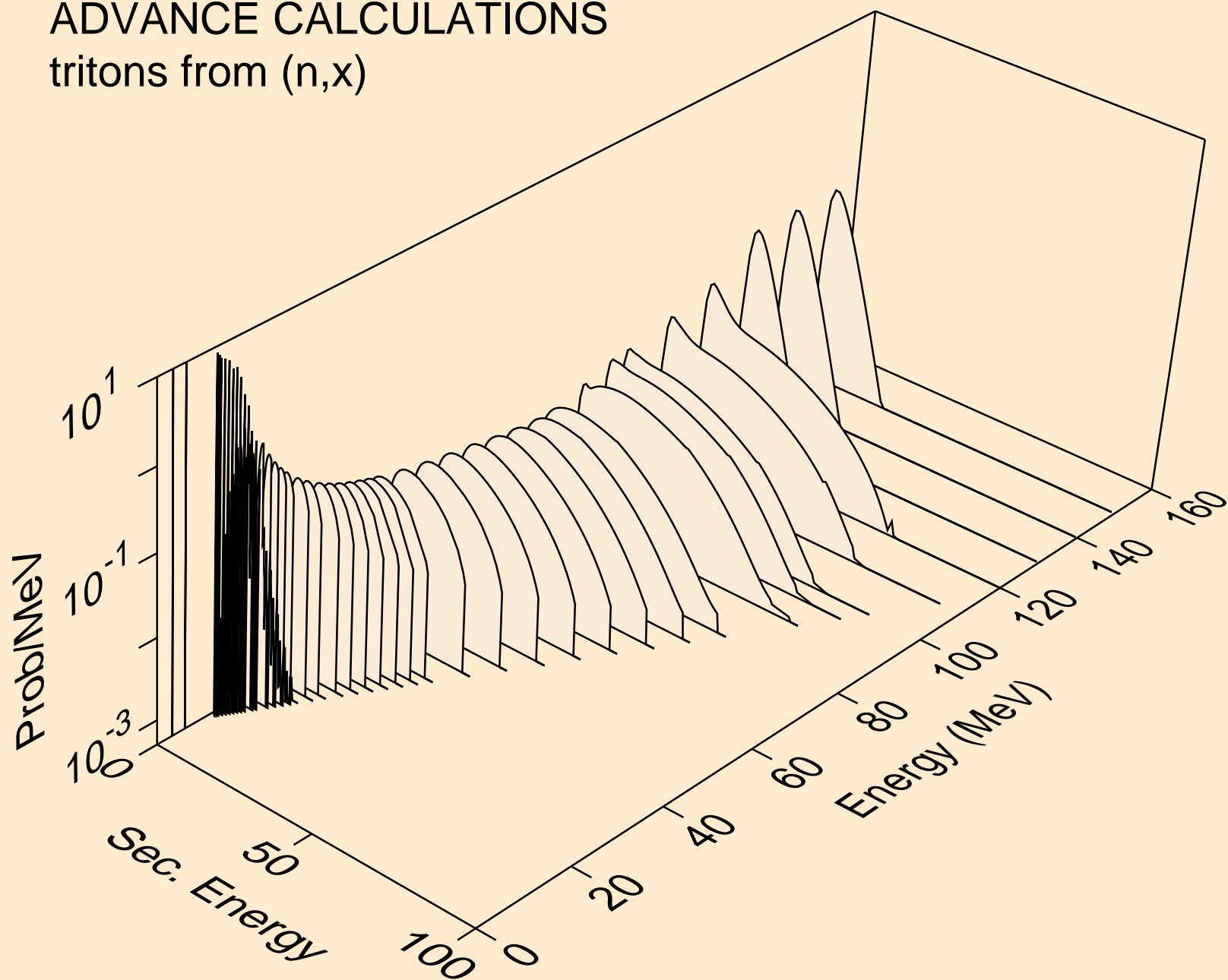
# ADVANCE CALCULATIONS

## deuterons from ( $n, x$ )



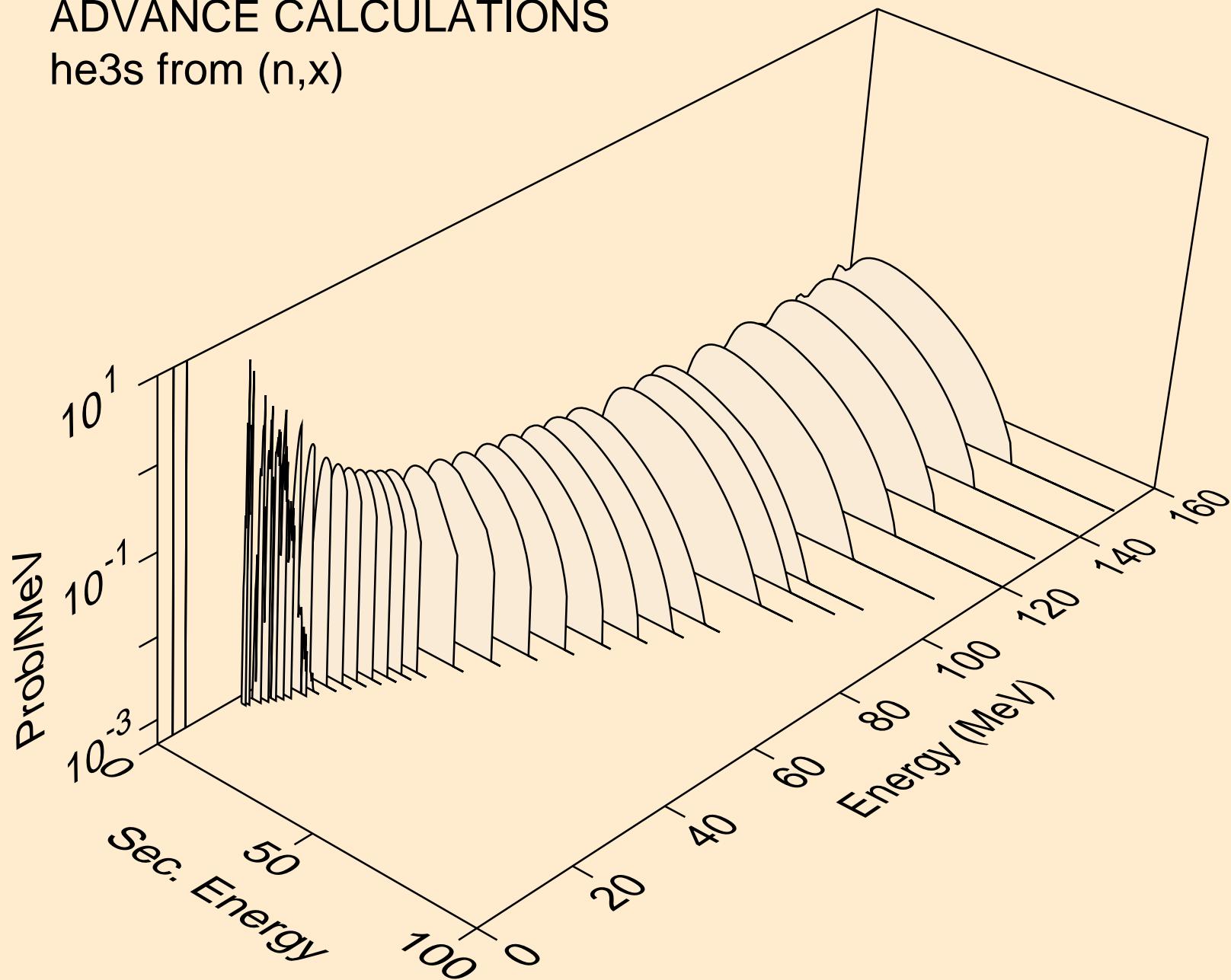
# ADVANCE CALCULATIONS

## tritons from (n,x)



# ADVANCE CALCULATIONS

## he3s from (n,x)



# ADVANCE CALCULATIONS

alphas from (n,x)

